Clarion

Owner's manual

使用说明书

사용 설명서

VXZ646

AM/FM DVD/VCD/CD/MP3 PLAYER

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AM/FM DVD/VCD/CD/MP3播放器

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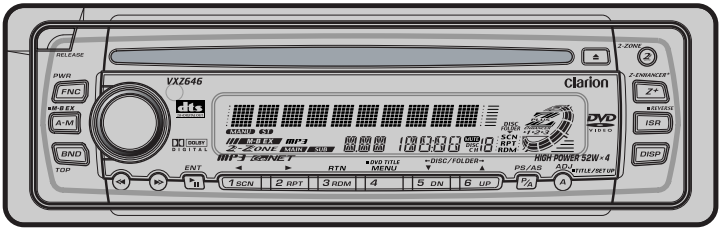
AM/FM DVD/VCD/CD/MP3플레이어



English

Thank you for purchasing this **Clarion** product.

* Please read this owner's manual in its entirety before operating this unit.
* After reading this manual, be sure to keep it in a handy place (e.g., glove compartment).
* This manual includes the operating procedures of the CD changer and TV tuner connected via the CeNET cable. The CD changer and TV tuner have their own manuals, but no explanations for operating them are described.

Contents

1. FEATURES **2**

2. PRECAUTIONS **3**
Handling Compact Discs 3

3. DVD VIDEO SYSTEM **4**

4. CONTROLS **5**

5. NOMENCLATURE **6**
Names of the Buttons and their Functions 6
Major Button Operations When External Equipment is Connected to This Unit 7
Display Items 8
LCD Screen 8

6. DCP **9**

7. REMOTE CONTROL **10**
Buttons Used in the DVD Mode 10
Inserting the Batteries 11
Functions of Remote Control Unit Buttons 12

8. OPERATIONS **13**
Basic Operations 13
Radio Operations 15
DVD Operations 17
DVD-Video Operations 18
Watching a video CD (V-CD) 22
Listening to a CD 25
Listening to an MP3 26
Changing Initial Settings such as Menu Language, etc. 30
Different pieces of music heard by plural listeners (2-ZONE function) 36
Operations Common to Each Mode 38

9. OPERATIONS OF ACCESSORIES **41**
CD Changer Operations 41
TV Operations 43

10. IN CASE OF DIFFICULTY **45**

11. ERROR DISPLAYS **46**

12. SPECIFICATIONS **47**

1. FEATURES

- DVD Video/CD-DA/MP3/Video CD Play Capability
- 5.1 Channel Decoder for DTS and Dolby Digital Capability
- Multi Angle, Multi Story, Slow Motion Capability
- CD-R/CD-RW Compatible
- CD TEXT Capable with Optional Monitor
- ID3 Tag Capable with Optional Monitor
- 24-Bit D/A Converters
- Visible Blue Negative LCD and White Illuminated Buttons
- Aluminum Detachable Faceplate
- Z-Enhancer Plus with 2 Band PEQ
- MAGNA BASS EX for Dynamic Bass Tuning
- 6ch RCA Output and 2ch AUX Input with 3 Level Adjustments
- CeNET with Balanced Audio Line Transmission and Dynamic Noise Cancelling
- 2 Channel Video Output

2. PRECAUTIONS

English

1. When the inside of the car is very cold and the player is used soon after switching on the heater moisture may form on the disc or the optical parts of the player and proper playback may not be possible. If moisture forms on the disc, wipe it off with a soft cloth. If moisture forms on the optical parts of the player, do not use the player for about one hour. The condensation will disappear naturally allowing normal operation.
2. Driving on extremely bumpy roads which cause severe vibration may cause the sound to skip.
3. This unit uses a precision mechanism. Even in the event that trouble arises, never open the case, disassemble the unit, or lubricate the rotating parts.

⚠CAUTION

USE OF CONTROLS, ADJUSTMENTS, OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN, MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

THE COMPACT DISC PLAYER and MINI DISC PLAYER SHOULD NOT BE ADJUSTED OR REPAIRED BY ANYONE EXCEPT PROPERLY QUALIFIED SERVICE PERSONNEL.

CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE MANUFACTURER FOR COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

INFORMATION FOR USERS:.

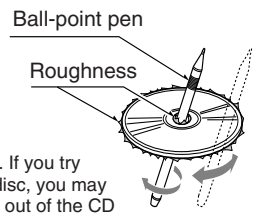
CHANGES OR MODIFICATIONS TO THIS PRODUCT NOT APPROVED BY THE MANUFACTURER WILL VOID THE WARRANTY.

Handling Compact Discs

Use only compact discs bearing the mark.
Do not play heart-shaped, octagonal, or other specially shaped compact discs.
Some CDs recorded in CD-R/CD-RW mode may not be usable.

Handling

- Compared to ordinary music CDs, CD-R and CD-RW discs are both easily affected by high temperature and humidity and some of CD-R and CD-RW discs may not be played. Therefore, do not leave them for a long time in the car.
- New discs may have some roughness around the edges. If such discs are used, the player may not work or the sound may skip. Use a ball-point pen or the like to remove any roughness from the edge of the disc.
- Never stick labels on the surface of the compact disc or mark the surface with a pencil or pen.
- Never play a compact disc with any cellophane tape or other glue on it or with peeling off marks. If you try to play such a compact disc, you may not be able to get it back out of the CD player or it may damage the CD player.
- Do not use compact discs that have large scratches, are misshapen, cracked, etc. Use of such discs may cause misoperation or damage.



- To remove a compact disc from its storage case, press down on the center of the case and lift the disc out, holding it carefully by the edges.
- Do not use commercially available CD protection sheets or discs equipped with stabilizers, etc. These may damage the disc or cause breakdown of the internal mechanism.

Storage

- Do not expose compact discs to direct sunlight or any heat source.
- Do not expose compact discs to excess humidity or dust.
- Do not expose compact discs to direct heat from heaters.

Cleaning

- To remove fingermarks and dust, use a soft cloth and wipe in a straight line from the center of the compact disc to the circumference.
- Do not use any solvents, such as commercially available cleaners, anti-static spray, or thinner to clean compact discs.
- After using special compact disc cleaner, let the compact disc dry off well before playing it.

3. DVD VIDEO SYSTEM

English

DVD video is a high-quality digital video source that provides crisp and clear images. One 12 cm disc contains either one film or four hours of music.

● DVD Video Features

This unit provides the following functions in addition to the high image quality and sound quality of DVD video.

Notes:

- *The functions described in the section, "Features", for example, the recorded language, subtitles, angles, etc. differ with the DVD video disc. Refer to the instructions provided with the DVD video.*
- *Some disc functions may operate differently than described in this manual.*

● Multi-sound function

DVD video can store up to 8 languages for one film; select the language of your preference.

- The languages stored on the disc are indicated by the icon as shown.

● Multi-angle function

A DVD video that is filmed from multiple angles allows you to select the angle of choice.

- The number of recorded angles are indicated by the icon as shown.

● Subpicture (subtitles) function

A DVD video can record subtitles for up to 32 languages and you can select the language of the subtitles you wish to see.

- The number of recorded subtitle languages are indicated by the icon as shown.

● Multi-story function

When a DVD video contains more than one story for a film, you can select the story you wish to enjoy. The operation procedures vary with the disc; observe the instructions for selecting a story provided during playback.

● Dolby Digital

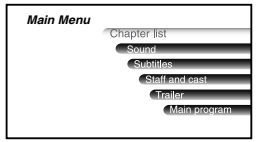
Dolby Digital enables up to 5.1 independent multi-channel audio reproduction, the same type of surround system that is also used in movie theaters.

● DTS

DTS (Digital Theater System) is a sound system that differs from the Dolby digital system. DTS provides a larger amount of data than Dolby digital enabling high-quality surround playback and incorporates a DTS-CD software for music like a DVD software allows 5.1 channel independent multi-channel audio reproduction.

● Menu screens

Menus can be called up during DVD video playback to perform menu setting.



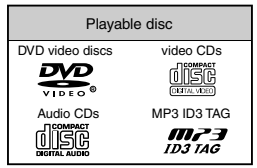
Discs

● Playable discs

This DVD video player can play the following discs.

Note:

- *When you play a CD Extra disc, only the first session will be recognizesd.*



● About CD Extra discs

A CD Extra disc is a disc in which a total of two sessions have been recorded. The first session is Audio session and the sedond session Data session.
Your personally-created CDs with more than second data sessions recorded cannot be played on this DVD video player.

● About playing a CD-R/CD-RW disc

This player can play CD-R/CD-RW discs previously recorded in music CD format or video CD format.

● Discs that cannot be played back

This DVD video player cannot play back DVD-R, DVD-RAM, Photo CDs, etc.

Notes:

- *It may also not be possible to play back CDs recorded on a CD-R unit and CD-RW unit. (Cause: disc characteristics, cracks, dust/dirt, dust/dirt on player's lens, etc.)*
- *If a CD-R or CD-RW disc that has not been finalized is played, it will take a long time to start playing. Also, it may not be possible to play depending on its recording conditions.*
- *You cannot play Super Audio CDs. Playback of the CD layer is not supported even if it is a hybrid disc.*

● Note on region numbers

The DVD video system assigns a region number to DVD video players and DVD discs by sales area.
This player can play "ALL" and "3" or "4" (and those inclusive).
For information checking on the recognition of "3" and "4", see page 34 "**Country code list**". The DVD video region number is marked on the disc jacket as shown.

● TV color system

This DVD player plays NTSC discs and PAL discs only and cannot be used for playback of SECAM discs.

● About MP3 playback

This unit can play back CD-R/CD-RW discs on which MP3 music data have been recorded. For a detailed information, see the page entitled "Listening to an MP3".

About the registered marks etc.

- This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection tecnology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.
- Manufactured under license from Dolby Laboratories. "Dolby" and the duble-D symbol are trademarks of Dolby Laboratories.
- Manufactured under license from Digital Theater Systems, Inc.U.S. Pat. No's. 5,451,942; 5,956,674; 5,974,380; 5,978,762; 6,226,616; 6,487,535 and other U.S. and world-wide patents issued and pending. "DTS" and "DTS Digital Surround" are registered trademarks of Digital Theater Systems, Inc. Copyright 1996, 2003 Digital Theater Systems, Inc. All Rights Reserved.

Be sure to unfold and read the next page. /
务必打开并阅读下一页。/
이 페이지를 펼친 채로 다음 페이지를 읽어 주십시오.

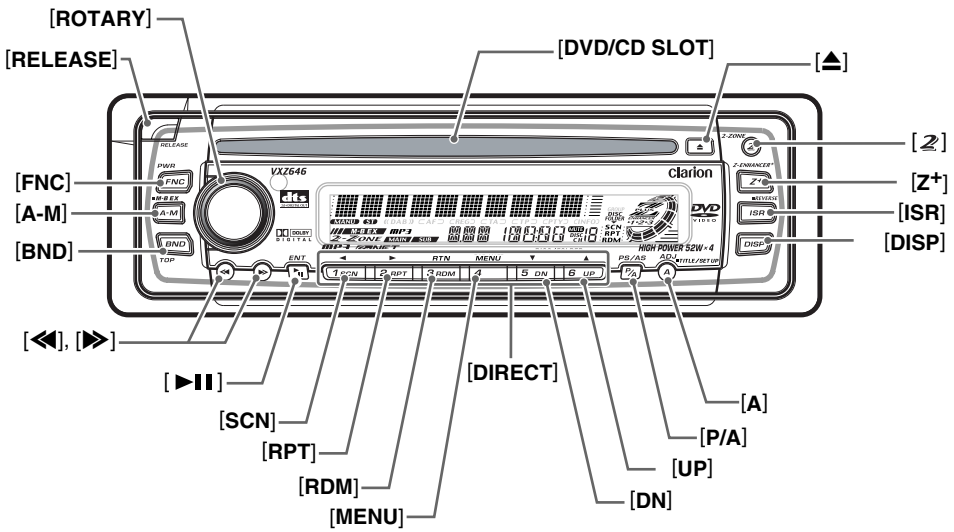
English

中文

한국어

4. CONTROLS / 控制键 / 컨트롤

Source unit / *主机* ***/*** *본체*



Note: *Be sure to unfold this page and refer to the front diagrams as you read each chapter.*

注：请务必打开此页，并在阅读每一章节时参照上面的正视图。

주: 이 페이지를 펼쳐두고, 각 장을 읽을 때 전면 그림을 참조하십시오.

English

5. NOMENCLATURE

Note:

*• Be sure to read this chapter referring to the front diagrams of chapter "**4. CONTROLS**" on page 5 (unfold).*

Names of the Buttons and their Functions

[RELEASE] button

- Deeply push in [**RELEASE**] button to unlock DCP.

[ROTARY] knob

- Adjust the volume by turning the knob clockwise or counterclockwise.
- Use the knob to perform various settings.

[DVD/CD SLOT]

- Disc insertion slot.

[⏏] button

- Eject a disc when it is loaded into the unit.

[2] button

- Press and hold for 1 second or longer to turn on or off the 2-ZONE mode.
- Press to switch the control zone between main zone or sub zone while 2-ZONE mode on.

[Z+] button

- Use the button to select one of the 4 types of sound characteristics already stored in memory. Press and hold the button for 1 second or longer to return to "FLAT" the default value.

[ISR] button

- Recall ISR radio station in memory.
- Press and hold for 2 seconds or longer: Store current station into ISR memory (radio mode only).
- Press and hold the button for 1 second or longer to switch the main and sub zone sound source. (only while 2-ZONE mode on)

[DISP] button

- Switch the display indication (Main display, Clock display).

[A] button

- Use the button to enter the adjust mode.
- Press and hold the button for 1 second or longer to input a title in the radio mode.
- Press and hold the button for 1 second or longer to display the SETUP MAIN MENU in the DVD mode.

[P/A] button

- Perform preset scan while in the radio mode. When the button is pressed and held, auto store is performed.

[UP], [DN] buttons

- Select the Folder. (MP3 disc only)

[DIRECT] buttons

- Store a station into memory or recall it directly while in the radio mode.

[MENU] button

- The DVD menu is displayed while a DVD is playing. Pressing and holding this button also displays the DVD title screen.
- The VCD MENU is displayed while a Video CD is playing (when PBC is ON).
- MP3 files are displayed in the MP3 mode.

[RDM] button

- Perform random play while in the DVD mode.
- Press and hold the button for 1 second or longer to perform folder random play while in the MP3 mode.

[RPT] button

- Repeat play while in the DVD mode.
- Press and hold the button for 1 second or longer to perform folder repeat play while in the MP3 mode.
- Press and hold the button for 1 second or longer to repeat the title while a DVD is playing .

[SCN] button

- Perform scan play for 10 seconds of each track while in the DVD mode.
- Press and hold the button for 1 second or longer to perform folder scan play while in the MP3 mode.

[▶II] button

- Play or pause a CD or DVD while in the DVD mode.
- Press and hold the button for 1 second in the DVD mode to stop playback.

[◀◀], [▶▶] buttons
- Select a station while in the radio mode or select a scene or a track when in the DVD mode. These buttons are used to make various settings.
- Press and hold the button for 1 second or longer to switch the fast-forward/fast-backward.

[BND] button
- Switch the band, or seek tuning or manual tuning while in the radio mode.
- Play a first scene and track while in the DVD mode.

[A-M] button
- Use the button to switch to the audio mode (subwoofer/bass/treble, balance/fader Z-Enhancer Plus)
- Press and hold for 1 second or longer to turn on or off the MAGNA BASS EXTENED.

[FNC] button
- Press the button to turn on the power. Press and hold the button for 1second or longer to turn off the power.
- Switches the operation mode among the radio mode, etc..

Major Button Operations When External Equipment is Connected to This Unit

● When the CD/DVD changer is connected

∗ For details, see the section "**CD changer operations**". For the DVD changer, refer to the Owner's Manual provided with the DVD changer.

[DISP] button
- When the button is pressed and held, switches the user titles or track titles, etc. while in the CD changer mode.

[A] button
- Press and hold the button for 1 second or longer to input a title in the CD changer mode.
- Press and hold the button for 1 second or longer to scroll the title during CD-text play.

[UP], [DN] buttons
- Select the disc.

[RDM] button
- Perform random play. Also perform disc random play when the button is pressed and held.

[RPT] button
- Perform repeat play. When this button is pressed and held, disc repeat play is performed.

[SCN] button
- Perform scan play for 10 seconds of each track. Disc scan play is performed when the button is pressed and held.

[BND] button
- Move the next disc in increasing order.

[▶II] button
- Play or pause a CD or DVD.
- Press and hold the button for 1 second in the DVD mode to stop playback.

[◀◀], [▶▶] buttons
- Select a track when listening to a disc.
- Press and hold the button for 1 second or longer to switch the fast-forward/fast-backward.

● When the TV is connected

∗ For details, see the section "**TV operations**".

[A] button
- Press and hold the button for 1 second or longer to input a title in the TV mode.

[P/A] button
- Perform preset scan while in the TV mode. When the button is pressed and held, auto store is performed.

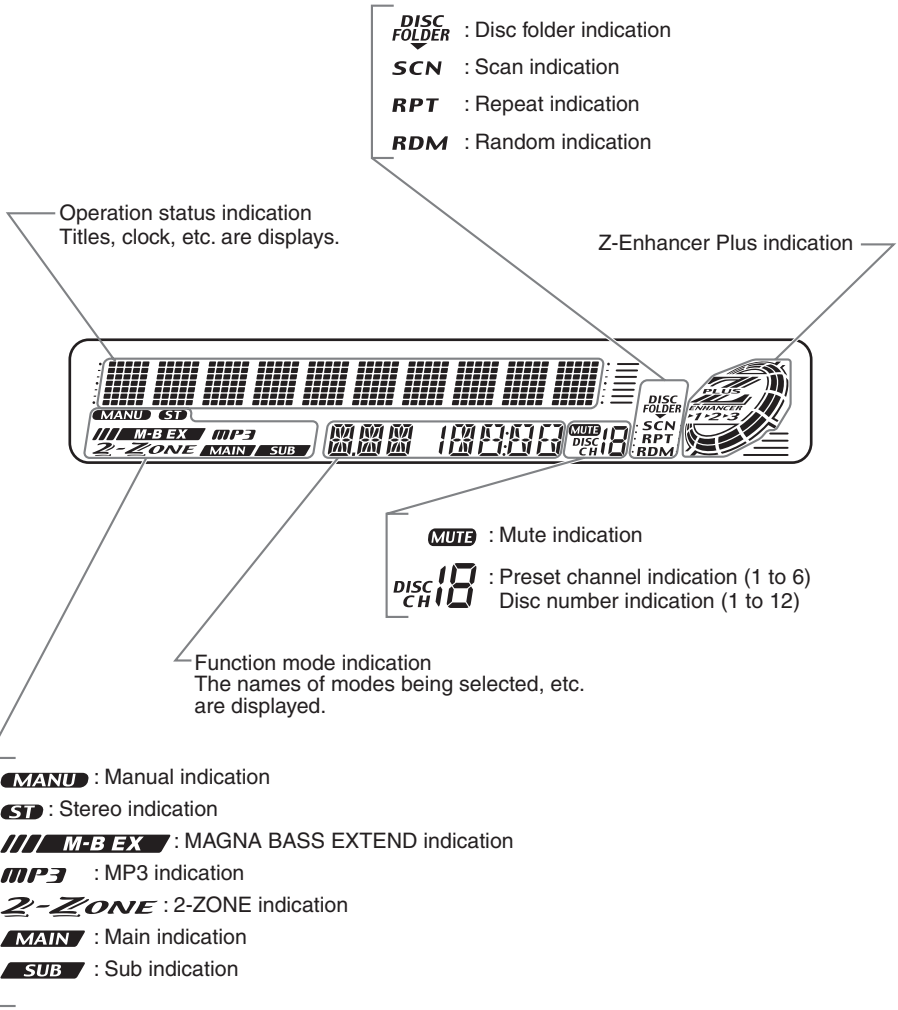
[DIRECT] buttons
- Store a station into memory or recall it directly.

[▶II] button
- Switch the TV picture mode or VTR (external) picture mode.

[◀◀], [▶▶] buttons
- Select a station.

[BND] button
- Switch the band.
- When the button is pressed and held, switch seek tuning or manual mode.

Display Items


DISC FOLDER : Disc folder indication
SCN : Scan indication
RPT : Repeat indication
RDM : Random indication
Operation status indication
Titles, clock, etc. are displays.
Z-Enhancer Plus indication
MUTE : Mute indication
DISC CH 18 : Preset channel indication (1 to 6)
Disc number indication (1 to 12)
Function mode indication
The names of modes being selected, etc.
are displayed.
MANU : Manual indication
ST : Stereo indication
M-B EX : MAGNA BASS EXTEND indication
MP3 : MP3 indication
2-ZONE : 2-ZONE indication
MAIN : Main indication
SUB : Sub indication

LCD Screen

In extreme cold, the screen movement may slow down and the screen may darken, but this is normal. The screen will recover when it returns to normal temperature.

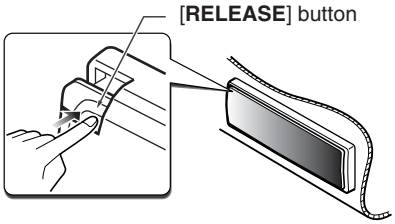
6. DCP

The control panel can be detached to prevent theft. When detaching the control panel, store it in the DCP (DETACHABLE CONTROL PANEL) case to prevent scratches.

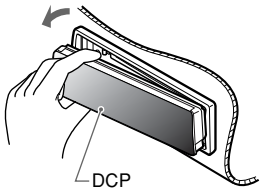
We recommend taking the DCP with you when leaving the car.

Removing the DCP

1. Press the [**FNC**] button for 1 second or longer to switch off the power.
2. Press in the [**RELEASE**] button.

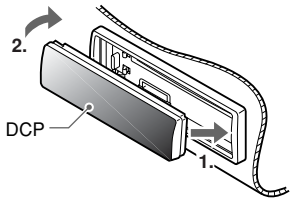


3. Remove the DCP.



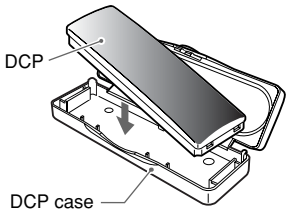
Attaching the DCP

1. Insert the right side of the DCP into the Source unit.
2. Insert the left side of the DCP into the Source unit.



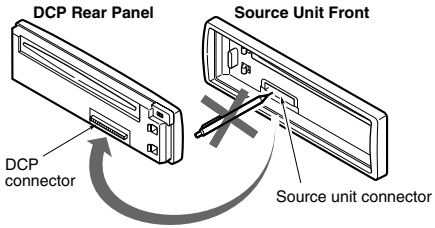
Storing the DCP in the DCP Case

Hold the DCP, in the orientation as shown in the figure below, and put it into the supplied DCP case. (Ensure the DCP is in the correct orientation.)



⚠CUATION

- **The DCP can easily be damaged by shocks. After removing it, be careful not to drop it or subject it to strong shocks.**
- **When the Release button is pressed and the DCP is unlocked, the car's vibrations may cause it to fall. To prevent damage to the DCP, always store it in its case after detaching it. (see figure below.)**
- **The connector connecting the Source unit and the DCP is an extremely important part. Be careful not to damage it by pressing on it with fingernails, screwdrivers, etc.**



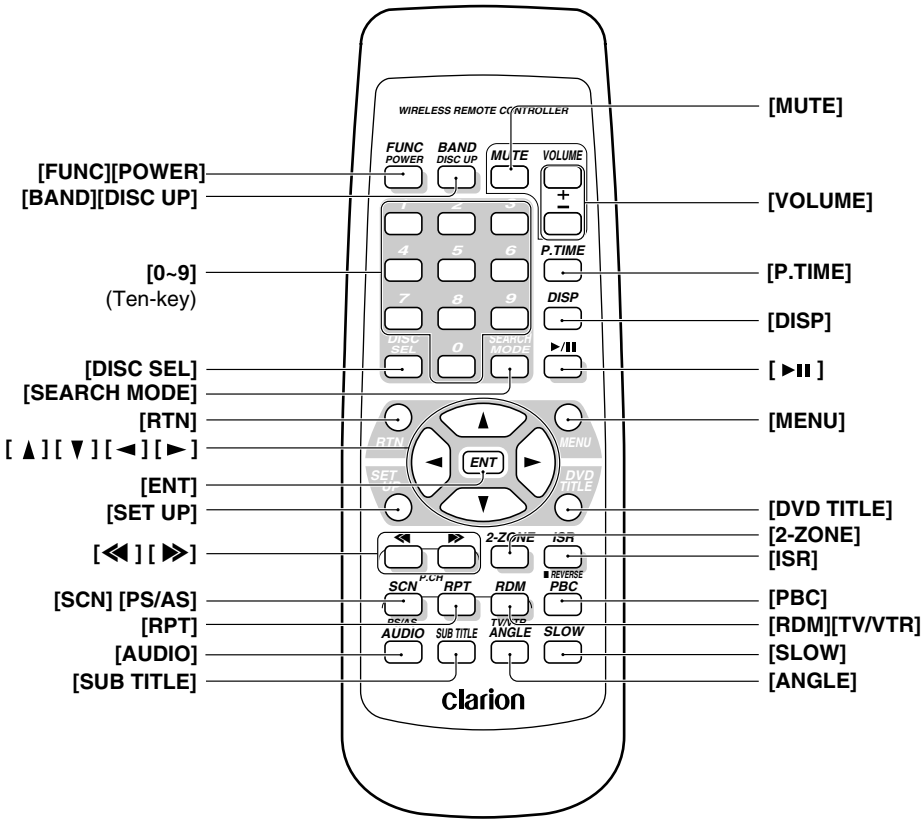
Note:

- *If the DCP is dirty, wipe off the dirt with a soft, dry cloth only.*

English

7. REMOTE CONTROL

Buttons Used in the DVD Mode



[P.TIME] button
Used to switch among play time displays

[0-9] buttons (Ten-key buttons)
Used to input numbers.

[DISC SEL] button
Used to change the disc. (only DVD changer mode)

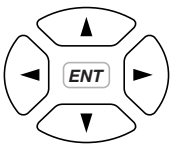
Enter with this key and numeric keys.

[MENU] button
V-CD (with PBC):Displays the PBC menu.

DVD VIDEO:Displays the menu screen.

[RTN] button
Returns to the previous menu.

[◄], [►], [▲], [▼] buttons (cursor buttons)
When selecting the menu items shown in the monitor screen, use the cursor buttons to move the cursor up and down, left and right.



[ENT] button
Press this button to enter the setup item.

[DVD TITLE] button
DVD VIDEO:Displays the title screen.

[SET UP] button
Displays the setup screen of the unit.

[PBC] button
Turns on/off the playback control (PBC) function for V-CDs equipped with it.

[AUDIO] button
DVD VIDEO:Switches among languages for audio (for DVDs with two or more languages).

V-CD:Switches among audio output methods.

[SUB TITLE] button
Switches among languages for the subtitle.

[ANGLE] button
Switches among angles while in DVD playback.

(This button is available only on multiple angles DVDs.)

[SLOW] button
While the button is kept pressed, slow play is performed.

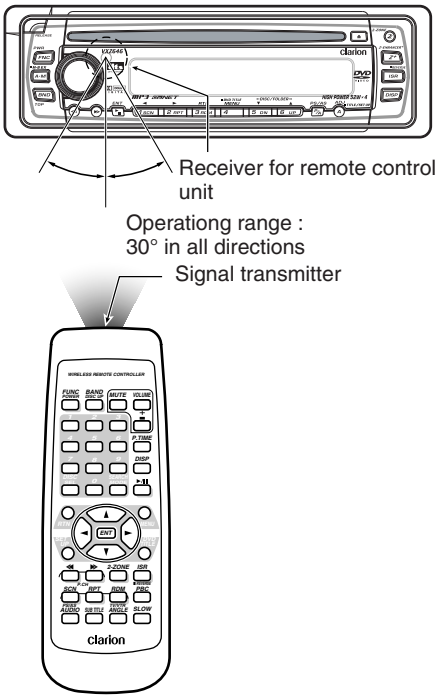
[SEARCH MODE] button
After this button is pressed, enter numbers using Ten-key buttons.

DVD-VIDEO: Performs searching with a title/ chapter number.

MP3: FOLDER/TRACK number.

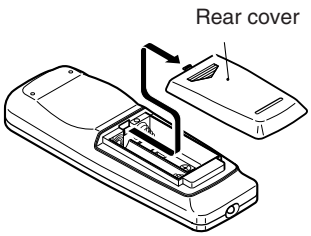
V-CD (key inputs are accepted only when the PBC is turned off.):
TRACK number

CD: TRACK number.

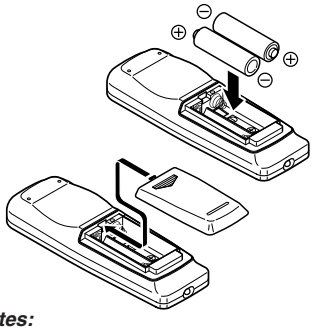


Inserting the Batteries

1. Open the rear battery cover.



2. Insert the two supplied size AA (R6/1.5V) batteries orienting the plus and minus poles of the batteries as shown by the ⊕ and ⊖ symbols inside the battery compartment. Close the battery cover.



Notes:

Using batteries improperly can cause them to explode. Take note of the following points:

- *When replacing batteries, replace both batteries with new ones.*
- *Do not short-circuit, disassemble or heat batteries.*
- *Do not dispose of batteries into fire or flames.*
- *Dispose of spent batteries properly.*

Functions of Remote Control Unit Buttons

Mode / Button	Radio	DVD (CD/MP3)	CD changer DVD changer	TV
[**FUNC/ POWER**]	Switches among radio, DVD (CD/MP3), CD changer, DVD changer, TV and AUX.			
[**BAND/ DISC UP**]	Switches reception band.	Plays the first track. Top play.	Moves the next disc in increasing order.	Switches reception band.
[**VOLUME**]	Increases and decreases volume (in all modes).			
[◀◀] , [▶▶]	Moves preset channels up and down.	Moves tracks up and down. When pressed and held for 1 second: Fast-forward/fast-backward.		Moves preset channels up and down.
[▶❚❚]	No function.	Switches between playback and pause. Press and hold this button for 1 second or longer to stop play.	Switches between playback and pause. When pressed and held for 1 second, play stops in the DVD changer mode.	No function.
[**MUTE**]	Turns mute on and off.			
[**ISR**]	Recalls ISR radio station in memory. Press and hold for 2 seconds or longer: Stores current station into ISR memory (radio mode only). Press and hold the button for 1 second or longer to switch the main and sub zone sound source.(only while 2-ZONE mode on)			
[**DISP**]	Switches among main display, clock display.			
[**SCN**]	Preset scan. When pressed and held for 2 seconds: Auto store.	Scan play. Press and hold the button for 1 second or longer to perform folder scan play while in the MP3 mode.	Scan play. When pressed and held for 1 second: Disc scan play.	Preset scan. When pressed and held for 2 seconds: Auto store.
[**RPT**]	No function.	Repeat play. Press and hold the button for 1 second or longer to perform folder Repeat play while in the MP3 mode.	Repeat play. When pressed and held for 1 second: Disc repeat play.	No function.
[**RDM**]	No function.	Random play. Press and hold the button for 1 second or longer to perform folder Random play while in the MP3 mode.	Random play. When pressed and held for 1 second: Disc random play.	Switches between TV and VTR.
[**2-ZONE**]	Press and hold for 1 second or longer to turn on or off the 2-ZONE mode. Press to switch the control zone between main zone or sub zone while 2-ZONE mode on.			
Other	No function	Refer to “Buttons Used in the DVD Mode”.	No function	No function

∗ Some of the corresponding buttons on the main unit and remote control unit have different functions.

8. OPERATIONS

Basic Operations

Note: *Be sure to read this chapter referring to the front diagrams of chapter "**4. CONTROLS**" on page 5 (unfold).*

⚠CAUTION

Be sure to lower the volume before switching off the unit power or the ignition key. The unit remembers its last volume setting. If you switch the power off with the volume up, when you switch the power back on, the sudden loud volume may hurt your hearing and damage the unit.

Turning on/off the power

Note:

- *Be careful about using this unit for a long time without running the engine. If you drain the car's battery too far, you may not be able to start the engine and this can reduce the service life of the battery.*

1. Press the [**FNC**] button.
2. The illumination and display on the unit light up. The unit automatically remembers its last operation mode and will automatically switch to display that mode.
3. Press and hold the [**FNC**] button for 1 second or longer to turn off the power for the unit.

Note:

- *System check*
  *The first time this unit is turned on after the wire connections are completed, it must be checked what equipment is connected. When the power is turned on, "**SYSTEM CHK**" and "**Push POWER**" appear in the display alternately, so press the [**FNC**] button. The system check starts within the unit. When the system check is complete, press the [**FNC**] button again.*

Selecting a mode

1. Press the [**FNC**] button to change the operation mode.
2. Each time you press the [**FNC**] button, the operation mode changes in the following order:
   Radio mode ➜ DVD mode ➜ CD changer mode ➜ DVD changer mode ➜ TV mode ➜ AUX mode ➜ Radio mode...
   ∗ External equipment not connected with CeNET is not displayed.

Adjusting the volume

Turning the [**ROTARY**] knob clockwise increases the volume; turning it counterclockwise decreases the volume.

∗ The volume level is from 0 (minimum) to 33 (maximum).

Switching the display

Press the [**DISP**] button to select the desired display.

Each time you press the [**DISP**] button, the display switches in the following order:

Main display ➜ Clock display ➜ Main display ...

∗ Once selected, the preferred display becomes the display default. When a function adjustment such as volume is made, the screen will momentarily switch to that function's display, then revert back to the preferred display several seconds after the adjustment.

Setting the Z-Enhancer Plus

This unit are provided with 4 types of sound tone effects stored in memory. Select the one you prefer.

∗ The factory default setting is "**Z+ OFF**".
Each time you press the [**Z+**] button, the tone effect changes in the following order:
"**Z+ OFF**" ➜ "**BASS BOOST**" ➜ "**IMPACT**" ➜ "**EXCITE**" ➜ "**CUSTOM**" ➜ "**Z+ OFF**"...

- **BASS BOOST**: bass emphasized
- **IMPACT**: bass and treble emphasized
- **EXCITE**: bass and treble emphasized mid de-emphasized
- **CUSTOM**: user custom
- **Z+ OFF**: no sound effect

English

Adjusting the Z-Enhancer Plus

1. Press the [**Z+**] button and select the Z-Enhancer Plus mode to adjust.
2. Press the [**A-M**] button and turning the [**ROTARY**] knob clockwise adjusts in the + direction; tuning it counterclockwise adjusts in the - direction.
   - When "**B-BOOST 0**" selected, you can adjust the bass in the range of -3 to 3.
   - When "**IMPACT 0**" selected, you can adjust the bass and treble in the range of -3 to 3.
   - When "**EXCITE 0**" selected, you can adjust the bass and treble in the range of -3 to 3.

   ∗ When Z-Enhancer Plus is selected, press and hold the [**Z+**] button for 1 second or longer to change to the "**CUSTOM**" mode. Bass/treble characteristics become flat and the indication "**Z+ FLAT**" is shown in the display.

Adjusting the tone

Press the [**A-M**] button and select the item to adjust. Each time you press the [**A-M**] button, the item changes as following order:

- **When "BASS BOOST" is set "SW-VOL 0" ➜ "B-BOOST 0" ➜ "BAL 0" ➜ "FADER 0" ➜ Last function mode.**
- **When "IMPACT" is set "SW-VOL 0" ➜ "IMPACT 0" ➜ "BAL 0" ➜ "FADER 0" ➜ Last function mode.**
- **When "EXCITE" is set "SW-VOL 0" ➜ "EXCITE 0" ➜ "BAL 0" ➜ "FADER 0" ➜ Last function mode.**
- **When "CUSTOM" is set "SW-VOL 0" ➜ "BASS" ➜ "TREBLE" ➜ "BAL 0" ➜ "FADER 0" ➜ Last function mode.**
- **When "Z+ OFF" is set "SW-VOL 0" ➜ "BAL 0" ➜ "FADER 0" ➜ Last function mode.**

* If subwoofer is effective, "**SW-VOL 0**" can be selected.

Adjusting the subwoofer

∗ The factory default setting is "**SW-VOL 0**"

∗ This function can be adjusted only when the subwoofer output is set to "**ON**". For details on "**Setting the Subwoofer**", refer to the section "**Operation Common to Each Mode**" of each owner's manual.

1. Press the [**A-M**] button and select "**SW-VOL 0**".
2. Turning the [**ROTARY**] knob clockwise or counterclockwise to adjust the subwoofer volume.

   ∗ The factory default setting is "**SW-VOL 0**".(Adjustment range: -6 to +6)
3. When the adjustment is complete, press the [**A-M**] button several times until the function mode is reached.

Adjusting the bass (Gain, Frequency, Q-curve)

This adjustment can be performed when the Z-Enhancer Plus is set to "**CUSTOM**".

1. Press the [**A-M**] button and select "**BASS**".
2. Turning the [**ROTARY**] knob clockwise emphasizes the bass; turning it counterclockwise attenuates the bass.

   ∗ The factory default setting is "**B◀GAIN 0▶**". (Adjustment range: -6 to +8)
3. Press the [⏪] or [⏩] button to select "**B◀FREQ 50▶**".
   Turning the [**ROTARY**] knob clockwise or counterclockwise to select the frequency.

   ∗ The factory default setting is "**B◀FREQ 50▶**". (Adjustment 50/80/120 Hz)
4. Press the [⏪] or [⏩] button to select "**B◀Q 1▶**".
   Turning the [**ROTARY**] knob clockwise or counterclockwise to select the Q-curve.

   ∗ The factory default setting is "**B◀Q 1▶**". (Adjustment 1/1.25/1.5/2)
5. When the adjustment is complete, press the [**A-M**] button several times until the function mode is reached.

Adjusting the treble (Gain, Frequency)

This adjustment can be performed when the Z-Enhancer Plus is set to "**CUSTOM**".

1. Press the [**A-M**] button and select "**TREBLE**".
2. Turning the [**ROTARY**] knob clockwise emphasizes the treble; turning it counterclockwise attenuates the treble.

   ∗ The factory default setting is "**T◀GAIN 0▶**". (Adjustment range: -6 to +6)
3. Press the [⏪] or [⏩] button to select "**T◀FREQ 12k▶**".
   Turning the [**ROTARY**] knob clockwise or counterclockwise to select the frequency.

   ∗ The factory default setting is "**T◀FREQ 12k▶**". (Adjustment 8 kHz/12 kHz)
4. When the adjustment is complete, press the [**A-M**] button several times until the function mode is reached.

Adjusting the balance

1. Press the [**A-M**] button and select "**BAL 0**".
2. Turning the [**ROTARY**] knob clockwise emphasizes the sound from the right speaker; turning it counterclockwise emphasizes the sound from the left speaker.
   ∗ The factory default setting is "**BAL 0**". (Adjustment range: L13 to R13)
3. When the adjustment is complete, press the [**A-M**] button several times until the function mode is reached.

Adjusting the fader

1. Press the [**A-M**] button and select "**FADER 0**".
2. Turning the [**ROTARY**] knob clockwise emphasizes the sound from the front speakers; turning it counterclockwise emphasizes the sound from the rear speakers.
   ∗ The factory default setting is "**FADER 0**". (Adjustment range: F12 to R12)
3. When the adjustment is complete, press the [**A-M**] button several times until the function mode is reached.

Adjusting MAGNA BASS EXTEND

The MAGNA BASS EXTEND does not adjust the low sound area like the normal sound adjustment function, but emphasizes the deep bass sound area to provide you with a dynamic sound.

∗ The factory default setting is off.

1. Press and hold the [**A-M**] button for 1 second or longer to turn on the MAGNA BASS EXTEND effect. "**M-B EX**" lights in the display.
2. Press and hold the [**A-M**] button for 1 second or longer to turn off the MAGNA BASS EXTEND effect. "**M-B EX**" goes off from the display.

Radio Operations

Listening to the radio

1. Press the [**FNC**] button and select the radio mode. The frequency appears in the display.
2. Press the [**BND**] button and select the radio band. Each time the button is pressed, the radio reception band changes in the following order:
   FM1 ➜ FM2 ➜ FM3 ➜ AM ➜ FM1...
3. Press the [◀◀] or [▶▶] button to tune in the desired station.

Tuning

There are 3 types of tuning mode available, seek tuning, manual tuning and preset tuning.

Seek tuning

1. Press the [**BND**] button and select the desired band (FM or AM).

* If "MANU" is lit in the display, press and hold the [**BND**] button for 1 second or longer. "MANU" in the display goes off and seek tuning is now available.

2. Press the [◀◀] or [▶▶] button to automatically seek a station.
   When the [▶▶] button is pressed, the station is sought in the direction of higher frequencies; if the [◀◀] button is pressed, the station is sought in the direction of lower frequencies.

Manual tuning

There are 2 ways available: Quick tuning and step tuning.

When you are in the step tuning mode, the frequency changes one step at a time. In the quick tuning mode, you can quickly tune the desired frequency.

1. Press the [**BND**] button and select the desired band (FM or AM).
   ∗ If "**MANU**" is not lit in the display, press and hold the [**BND**] button for 1 second or longer. "**MANU**" is lit in the display and manual tuning is now available.
2. Tune into a station.
   ●**Quick tuning:**
   Press and hold the [◀◀] or [▶▶] button for 1 second or longer to tune in a station.
   ●**Step tuning:**
   Press the [◀◀] or [▶▶] button to manually tune in a station.

English

Recalling a preset station

A total of 24 preset positions (6-FM1, 6-FM2, 6-FM3, 6-AM) exists to store individual radio stations in memory. Pressing the corresponding [**DIRECT**] button recalls the stored radio frequency automatically.

1. Press the [**BND**] button and select the desired band (FM or AM).
2. Press the corresponding [**DIRECT**] button to recall the stored station.
   * Press and hold one of the [**DIRECT**] buttons for 2 seconds or longer to store that station into preset memory.

Manual memory

1. Select the desired station with seek tuning, manual tuning or preset tuning.
2. Press and hold one of the [**DIRECT**] buttons for 2 seconds or longer to store the current station into preset memory.

Auto store

Auto store is a function for storing up to 6 stations that are automatically tuned in sequentially. If 6 receivable stations cannot be received, a previously stored station remains unoverwritten at the memory position.

1. Press the [**BND**] button and select the desired band (FM or AM).
2. Press and hold the [**P/A**] button for 2 seconds or longer. The stations with good reception are stored automatically to the preset channels.

Preset scan

Preset scan receives the stations stored in preset memory in order. This function is useful when searching for a desired station in memory.

1. Press the [**P/A**] button.
2. When a desired station is tuned in, press the [**P/A**] button again to continue receiving that station.

Note:

- *Be careful not to press and hold the [**P/A**] button for 2 seconds or longer, otherwise the auto store function is engaged and the unit starts storing stations.*

Instant station recall (ISR)

Instant station recall is a special radio preset that instantly accesses a favorite radio station at a touch of a button. The ISR function even operates with the unit in other modes.

● ISR memory

1. Select the station that you wish to store in ISR memory.
2. Press and hold the [**ISR**] button for 2 seconds or longer.

● Recalling a station with ISR

In any mode, press the [**ISR**] button to turn on the radio function and tune the selected radio station. "**ISR**" appears in the display. Press the [**ISR**] button again to return to the previous mode.

DVD Operations

Disc-In-Play function

As long as the ignition key is turned to the ON or ACC position, this function allows you to turn the power to the unit and start playing the disc automatically when the disc is inserted even if the power is not turned on.

⚠CAUTION

- **Do not try to put your hand or fingers in the disc insertion slot. Also never insert foreign objects into the slot.**
- **Do not insert discs where adhesive comes out from cellophane tape or a rental CD label, or discs with marks where cellophane tape or rental CD labels were removed. It may be impossible to extract these discs from the unit and they may cause the unit to break down.**

Backup Eject function

Just pressing the [⏏] button ejects the disc even if the power to the unit was not turned on.

Press the [⏏] button, then the disc will be ejected.

Note:

- *If the ejected disc is left as it is, it will be reloaded after 15 seconds. However, single CDs will not be reloaded, so make sure to remove them.*

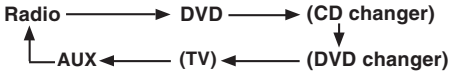
Listening to a disc already loaded in the unit

Press the [**FNC**] button to select the DVD mode.

When the unit enters the DVD mode, play starts automatically.

If there is no disc loaded, the indication "***NO DISC***" appears in the title display.

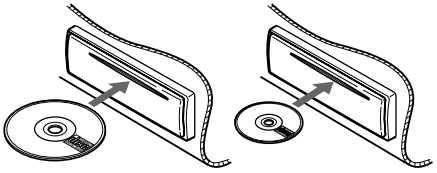
* The mode changes each time the [**FNC**] button is pressed. (Modes are not displayed for equipment that is not connected.)



Loading a disc

Insert the disc into the DVD/CD insertion slot with its labeled side facing up, then the disc will start playing.

For 5-inch (12 cm) disc **For 3-inch (8 cm) single disc**



Notes:

- *Never insert foreign objects into the DVD/CD SLOT.*
- *If the disc is not inserted easily, there may be another disc in the mechanism or the unit may require service.*

Loading 8 cm compact discs

* No adapter is required to play an 8 cm CD.
* Insert the 8 cm CD into the center of the insertion slot.

DVD-Video Operations

Watching a DVD-Video

After inserting a disc, the play mode is automatically engaged.

- Button operation may not be allowed depending on the story of the disc.

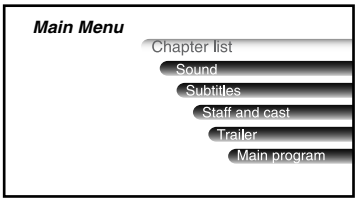
■ After the menu screen is displayed

For normal DVD-Video discs, the menu screen appears.

After the menu screen is displayed, select an item in the following operations and play it back.

Selecting the DVD menu

1. Press the [**MENU**] button during playback.
   ∗ The DVD menus appears.
   The displayed contents may differ, depending on the DVD software.
   • Example showing menu display.



2. Select an item by pressing the [▲] and [▼] buttons and press the [**ENT**] button to enter. Otherwise, select an item with the ten-key buttons on the remote control unit and press the [**ENT**] button to enter.
   ∗ The video images of the selected item are played back.
   • Depending on the disc, items cannot be selected with the ten-key buttons.

Stopping playback

Press and hold the [▶❚❚] button for 1 second or longer during playback.

∗ Playback stops.

■ To resume playback

- Press the [▶❚❚] button, and playback resumes from the scene where playback is stopped.

Pausing playback

Press the [▶❚❚] button during playback.

∗ Playback pauses.

■ To resume playback

- Press the [▶❚❚] button, and playback resumes.

Slow playback

Press and hold the [**SLOW**] button on the remote control unit during playback, or press and hold the [▶▶] button during pause.

∗ While the button is being pressed, slow playback continues at the speed 1/2 times the normal playback.

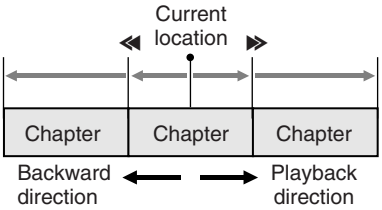
- Slow playback cannot be performed in the backward direction. In addition, audio cannot be reproduced during slow playback.

Skipping a chapter (searching)

Chapter means a small segment to divide the data area of the disc.

Press the Chapter up [◀◀] button or Chapter down [▶▶] button during playback.

∗ Chapters are skipped, as many as the times the button is pressed, and playback starts.



- Press the [▶▶] button, and playback starts from the beginning of the next chapter.
- Press the [◀◀] button, and playback starts from the beginning of the current chapter. When this button is pressed again within about 1 second, playback starts from the beginning of the previous chapter.
- The unit may return to the menu screen when the [▶▶] button or [◀◀] button is pressed.

Fast forward and Fast rewind

Press and hold the Fast forward [▶▶] button or Fast rewind [◀◀] button during playback.

∗ Press and hold the button, and the playback speed becomes 4-time faster first and then 16-time faster 3 seconds later. Release the button, and the normal speed is restored.

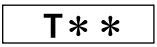
- No audio is reproduced during fast forward and fast rewind operation.
- The fast forward and fast rewind speed may differ depending on the disc.
- The menu screen may appear when the button is pressed.

Searching with a chapter/title number

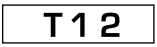
You can locate the beginning of the scene using the chapter numbers or title numbers recorded on the DVD-Video disc.

* This function can only be used from the remote control unit.

1. Press the [**SEARCH MODE**] button during playback and select "[**C****]".
   * Each time you press the button, you can switch between title number input "[**T****]" and chapter number input "[**C****]".
     - **Title**
       A large segment to divide the data area of the disc.
     - **Chapter**
       A small segment to divide the data area of the disc.
2. Input the number of the title that you want to play back with the ten-key buttons (0 to 9).
   - To input the title number "**12**", press "**1**" of ten key buttons and then "**2**".

   Press "1". 

   Press "2".

3. Press the [**ENT**] button on the remote control unit.
   * Playback starts from the scene of the input title number or chapter number.
   - If the input title number does not exist or searching with a title number is not allowed, the following message appears to invalidate the input.

Scan playback

Scans and plays back all chapters recorded on the DVD-Video, the first 10 seconds for each.

Press the [**SCN**] button.

After scan playback of all chapters on the disc, chapter scanning through the same disc is performed again.

Depending on the disc, the menu may appear again after scan playback of all chapters within the title.

Press the [**SCN**] button again, and scan playback is turned off.

Depending on a chapter previously set, SCAN may be cancelled.

Repeat playback

This operation plays back chapters/titles recorded on the DVD-Video repeatedly.

Press the [**RPT**] button for chapter repeat.

Press the [**RPT**] button for 1 second or longer for title repeat.

● **Chapter repeat:**
Plays back one chapter repeatedly.

● **Title repeat:**
Plays back all chapters within the title repeatedly.

Press the [**RPT**] button again, and repeat playback is turned off.

Using the title menu

On DVD discs containing two or more titles, you can select from the title menu for playback.

1. Press the [**DVD TITLE**] button on the remote control unit or press and hold the [**DVD TITLE**] button for 1 second or longer on this unit during playback.
   * The title menu screen appears.
   - Press the [**MENU**] button to return to the scene before the title menu screen and play the DVD.
   - Depending on the disc, the title menu cannot be called with [**DVD TITLE**] button.
2. Press the [▲], [▼], [◄], [►] buttons or use the ten-key buttons to select an item.
   - Movement of the selected item with the buttons differs depending on the disc. Selection using the ten-key buttons also differs depending on the disc.
   - Depending on the disc, items cannot be selected with the ten-key buttons.
3. Press the [**ENT**] button.

Switching among languages

On discs in which two or more audios or audio languages have been recorded, you can switch among the audio languages during playback.

* This function can only be used from the remote control unit.

Press the [**AUDIO**] button during playback.

* Each time you press the button, you can switch among audio languages.
- Depending on the disc, up to 8 audios may be recorded. For details, see the mark of the disc (8: Indicates that 8 audios have been recorded).
- When the power is turned on and when the disc is changed with a new one, the language set at the time of factory shipment is selected. If that language has not been recorded, the language specified on the disc.
- Depending on the disc, switching may be completely impossible or impossible on some scenes.
- It may take time to switch among audios.

Switching subtitles

On DVD discs in which two or more subtitle languages have been recorded, you can switch among the subtitle languages during playback.

* This function can only be used from the remote control unit.

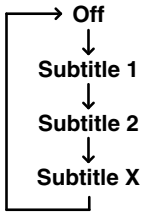
Press the [**SUB TITLE**] button during playback.

* Each time you press the button, you can switch among subtitles.
- Depending on the disc, up to 32 kinds of subtitles may be recorded. For details, see the mark of the disc (8: Indicates that 8 kinds of subtitles have been recorded).
- Depending on the disc, switching may be completely impossible or impossible on some scenes.
- It may take time to switch among subtitles.

● To turn off subtitles

Press the [**SUB TITLE**] button several times, and subtitles are turned off.

In initial setting:



Switching angles

On DVD discs in which video images have been recorded in two or more angles, you can switch among the angles during playback.

* This function can only be used from the remote control unit.

Press the [**ANGLE**] button during playback.

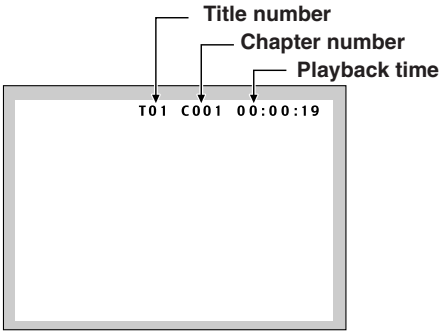
* Each time you press the button, you can switch among angles.
- Depending on the disc, up to 9 angles may be recorded. For details, see the mark of the disc (8: Indicates multi-angle).
- Depending on the disc, angles may switch smoothly or switch with a momentary still image.
- Depending on the disc, switching may be completely impossible or impossible on some scenes.
- It may take time to switch among angles.
- Depending on the disc, scenes recorded in two or more angles may be played back.

Displaying the playback status

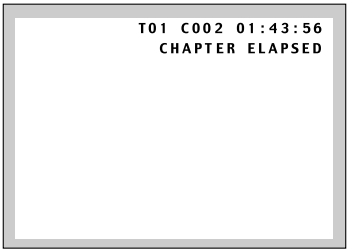
* This function can only be used from the remote control unit.

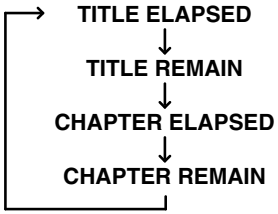
Press the [**P.TIME**] button during playback.

* When pressing the [**P.TIME**] button. Each time you press the button, you can switch between display (ON) and non-display (OFF) of the playback status.



By pressing the button for 1 second or longer while the playback status is displayed, you can switch among time displays.





- **TITLE ELAPSED:**
  Elapsed time of the title
- **TITLE REMAIN:**
  Remaining time of the title
- **CHAPTER ELAPSED:**
  Elapsed time of the chapter
- **CHAPTER REMAIN:**
  Remaining time of the chapter

Watching a video CD (V-CD)

After inserting a disc, the play mode is automatically engaged.

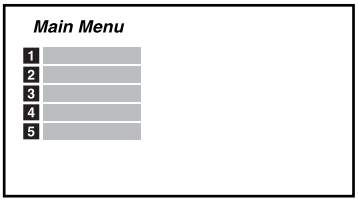
- Button operation may not be allowed depending on the story of the disc.

■ **After the menu screen is displayed**
For V-CD discs equipped with the PBC (Play Back Control) function, the menu screen appears. After the menu screen is displayed, select an item in the following operations and play it back.

Selecting the V-CD menu (for V-CD discs with PBC)

This key does not function on some discs.

1. Press the [**MENU**] button during playback.
   ∗ The V-CD menu appears.
   The displayed contents may differ, depending on the V-CD software.
   • Example showing menu display.



   The menu screen can be switched depending on a disc being played.
2. Select an item with the ten-key buttons on the remote control unit and press the [**ENT**] button to enter.
   ∗ The video images of the selected item are played back.

Stopping playback

Press and hold the [▶❚❚] button for 1 second or longer during playback.

∗ Playback stops.

When the PBC is turned on

- When the [▶❚❚] button is pressed, the disc plays from the beginning.
  If the unit is CeNET connected and the function is switched, the disc plays from the beginning.

When the PBC is turned off

● **To resume playback**
- Press the [▶❚❚] button, and playback resumes from the scene where playback is stopped.

Pausing playback

Press the [▶❚❚] button during playback.

* Playback pauses.

■ **To resume playback**
- Press the [▶❚❚] button, and playback resumes.

Slow playback

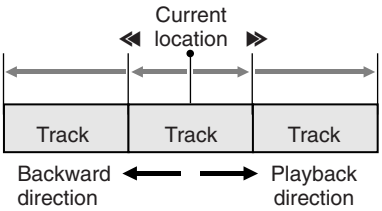
Press and hold the [**SLOW**] button on the remote control unit during playback, or press and hold the [▶▶] button during pause.

∗ While the button is being pressed, slow playback continues at the speed 1/2 times the normal playback.
- Slow playback cannot be performed in the backward direction. In addition, audio cannot be reproduced during slow playback.

Skipping a track (searching)

Press the TRACK up [▶▶] / TRACK down [◀◀] button during playback.

∗ The track is skipped and playback starts.



- Press the [▶▶] button, and playback starts from the beginning of the next track.
- Press the [◀◀] button, and playback starts from the beginning of the current track. When this button is pressed again within about 1 second, playback starts from the beginning of the previous track.

This operation cannot be performed on some discs with PBC.

Fast forward and Fast rewind

Press and hold the Fast forward [▶▶] button or Fast rewind [◀◀] button during playback.

* Press and hold the button, and the playback speed becomes 4-time faster first and then 16-time faster 3 seconds later. Release the button, and the normal speed is restored.

• No audio is reproduced during fast forward and fast rewind operation.
• The unit may return to the menu screen when the button is pressed.

Searching with a track number

This operation allows searching with the track numbers recorded on the video CDs.

* This function can only be used from the remote control unit.

1. Press the [**SEARCH MODE**] button during playback.
2. Input the number of the track that you want to play back with the ten-key buttons (0 to 9).
   • To input the track number "**12**", press "**1**" of the ten-key buttons and then "**2**".

Press "1". T**

Press "2". T01

T12

3. Press the [**ENT**] button on the remote control unit.
   * Playback starts from the scene of the input track number.
   • If the input track number does not exist or searching with a track number is not allowed, the following message appears to invalidate the input.

⊘ INVALID

You cannot do this operation when PBC is ON for a disc with PBC functions.

Changing audio output

You can change the audio output method.

* This function can only be used from the remote control unit.

Press the [**AUDIO**] button during playback.
* Each time you press the button, you can switch among audio output methods.

LR (Stereo)
↓
LL (Left)
↓
RR (Right)

Scan playback

This operation scans and plays back all tracks on the disc, the first 10 seconds for each.

Press the [**SCN**] button.
* Press the [**SCN**] button again, and scan playback is turned off.

You cannot do this operation when PBC is ON for a disc with PBC functions.

Repeat playback

This operation plays back one track recorded on the video CD repeatedly.

Press the [**RPT**] button.
* Press the [**RPT**] button again, and repeat playback is turned off.

You cannot do this operation when PBC is ON for a disc with PBC functions.

Random playback

This operation plays back all tracks on the disc in no particular order.

Press the [**RDM**] button.
* Press the [**RDM**] button again, and random playback is turned off.

You cannot do this operation when PBC is ON for a disc with PBC functions.

Displaying the playback status

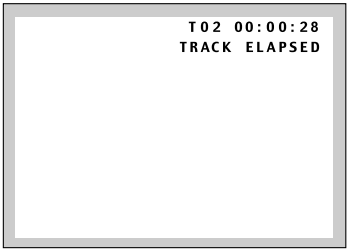
* This function can only be used from the remote control unit.

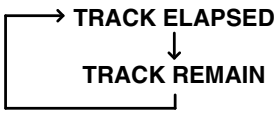
Press the [**P.TIME**] button during playback.

* When pressing the [**P.TIME**] button. Each time you press the button, you can switch between display (ON) and non-display (OFF) of the playback status.

- Even when display of the playback status is OFF, you can display the playback status by operating the button.
- Depending on the playback status or disc, the following indication may appear.

By pressing the button for 1 second or longer, you can switch among time displays.





Note:

- *Depending on some discs, the [**P.TIME**] indication may not be displayed on some scenes. Also, it may occur that the P.TIME operation does not work. When this happens, the indication "**INVALID**" will appear.*

On/off of Play Back Control

On video CDs equipped with Play Back Control function, you can turn it on/off.

* This function can only be used from the remote control unit.

Press the [**PBC**] button.

* Each time you press the button, you can switch between on and off.
When the PBC is turned on or off, the disc plays from the beginning.
The factory default setting of PBC is "**ON**".

Playback control (PBC)

This control signal is recorded on a Video CD for version 2.0 and used to control playback. Using pre-recorded menu screens in the Video CD with PBC, you can enjoy playback of software with a simplified dialog function or software with search function. You can also enjoy a still picture at high or standard resolution.

When the PBC is turned on

The beginning of a disc is played if one of the operations such as "**SET UP**", "**STOP**" or "**ACC ON/OFF**" is performed.

Listening to a CD

∗ **This unit is a CD TEXT compatible model.**

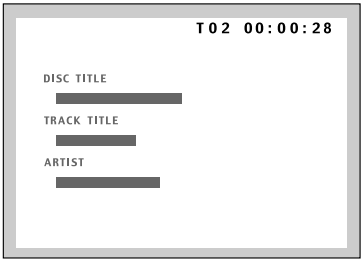
This unit supports the display of the DISC TITLE, TRACK TITLE and ARTIST of the CD TEXT.

Note:

- *This unit supports only CD TEXT in English. Also, some character data may not be reproduced properly on the monitor.*

After inserting a disc, the play mode is automatically engaged.

- Example showing CD TEXT display.



Stopping playback

Press and hold the [▶❚❚] button for 1 second or longer during playback.

∗ Playback stops.

■ **To resume playback**

- Press the [▶❚❚] button, and playback resumes from the scene where playback is stopped.

Pausing playback

Press the [▶❚❚] button during playback.

∗ Playback pauses.

■ **To resume playback**

- Press the [▶❚❚] button again, and playback resumes.

Skipping a track (searching)

Press the TRACK up [⏭]/ TRACK down [⏮] buttons.

* Tracks are skipped, as many as the times the button is pressed, and playback starts.

- Press the [⏭] button, and playback starts from the beginning of the next track.
- Press the [⏮] button, and playback starts from the beginning of the current track. When this button is pressed again within about 1 second, playback starts from the beginning of the previous track.

Fast forward and Fast rewind

Press and hold the Fast forward [⏭] button or Fast rewind [⏮] button during playback.

∗ Press and hold the button, and the playback speed becomes 4-time faster first and then 8-time faster 3 seconds later. Release the button, and the normal speed is restored.

Searching with a track number

This operation allows searching using the track numbers recorded on the CDs.

∗ This function can only be used from the remote control unit.

1. Press the [**SEARCH MODE**] button during playback.
2. Input the number of the track that you want to play back with the ten-key buttons (0 to 9).
   - To input the track number "**12**", press "**1**" of the ten-key buttons and then "**2**".

   Press "1". T∗∗

   Press "2". T01

   T12
3. Press the [**ENT**] button on the remote control unit.
   ∗ Playback starts from the track of the input track number.
   - If the input track number does not exist or searching with a track number is not allowed, the following message appears to invalidate the input.

   ⃠ INVALID

Scan playback

This operation scans and plays back all tracks recorded on the disc, the first 10 seconds for each.

Press the [**SCN**] button.

∗ Press the [**SCN**] button again, and scan playback is turned off.

Repeat playback

This operation plays back tracks recorded on the CD repeatedly.

● **Track repeat:**
Plays back one track repeatedly.

Press the [**RPT**] button.
∗ Press the [**RPT**] button again, and repeat playback is turned off.

Random playback

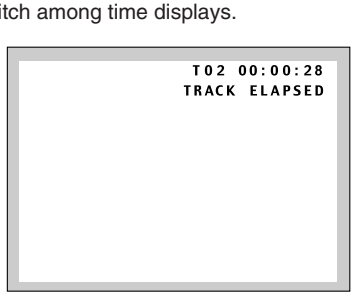
This operation plays back all tracks on the disc in no particular order.

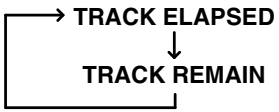
Press the [**RDM**] button.
∗ Press the [**RDM**] button again, and random playback is turned off.

Changing the display of the playback status

∗ This function can only be used from the remote control unit.

By pressing the [**P.TIME**] button longly, you can switch among time displays.





Listening to an MP3

This unit is an ID3 Tag compatible model. This unit supports the title, artist and album display of the ID3 Tag versions 1.0 and 1.1.

MP3

What is MP3?

MP3 is an audio compression method and classified into audio layer 3 of MPEG standards. This audio compression method has penetrated into PC users and become a standard format.

This MP3 features the original audio data compression to about 10 percent of its initial size with a high sound quality. This means that about 10 music CDs can be recorded on a CD-R disc or CD-RW disc to allow a long listening time without having to change CDs.

Precautions when creating an MP3 disc

● **File extensions**

1. Always add a file extension "**.MP3**" or "**.mp3**" to an MP3 file by using single byte letters. If you add a file extension other than specified or forget to add the file extension "**.MP3**" or "**.mp3**", the file cannot be played. In addition, if you use upper case and lower case letters (capital and small letters) mixedly for file extensions, normal play may not be possible.
2. Files without MP3 data will not play.

● **Logical format (File system)**

1. When writing an MP3 file on a CD-R disc or CD-RW disc, please select "ISO9660 level 1 or level 2 (without including expansion format)" as the writing software format. Normal playback may not be possible if the disc is recorded on another format.
2. The folder name and filename can be displayed as the title during MP3 play but the title must be within 31 and 27 single byte alphabetical letters and numerals for the folder name and filename, respectively (without including an extension). Entering more letters or numerals than specified may cause an incorrect display.

● **Folder structure**

1. A disc with a folder having more than 8 hierarchical levels will conflict with the ISO9660 and playback will be impossible.

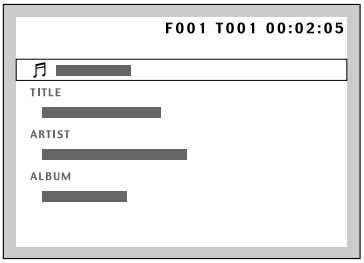
● **Number of files or folders**

1. A total of 255 files and folders are allowed. (However, the maximum number of folders must be within 254.) When the number of files and folders is more than 256, playback of tracks in excess of that number is impossible.
2. Tracks are played in the order that they were recorded onto a disc. (Tracks might not always be played in the order displayed on the PC.)

- Some noise may occur depending on the type of encoder software used while recording.
- Files created using LAME (Lame Aint MP3 Encoder) may not be played properly.
- In case of a track recorded at VBR (variable bit rate), the display for the play time of the track may be slightly different from the actual play time.
  Also, the recommended value of VBR ranges from 64 kbps to 320 kbps.
- Depending on the damage conditions of a file, it may occur that the file is not played and the next file is played instead.
  Also, if the damage is in a severe condition, play stops showing the "**DISC ERROR**" display.

After disc selection, the play mode is automatically engaged.

- Example showing ID3 Tag display.



Note:

• If ID3 Tag information was entered with 2-byte characters, it may occur that the characters are not reproduced properly on the monitor.

Stopping playback

Press and hold the [▶❚❚] button for 1 second or longer during playback.

∗ Playback stops.

■ **To resume playback**

- Press the [▶❚❚] button, and playback resumes from the scene where playback is stopped.

Pausing playback

Press the [▶❚❚] button during playback.

* Playback pauses.

■ **To resume playback**

- Press the [▶❚❚] button again, and playback resumes.

Skipping a track (searching)

Press the TRACK up [⏭] / TRACK down [⏮] buttons.

∗ Tracks are skipped, as many as the times the button is pressed, and playback starts.

- Press the [⏭] button, and playback starts from the beginning of the next track.
- Press the [⏮] button, and playback starts from the beginning of the current track. When this button is pressed again within about 2 seconds, playback starts from the beginning of the previous track.

This operation skips the track over the folder.

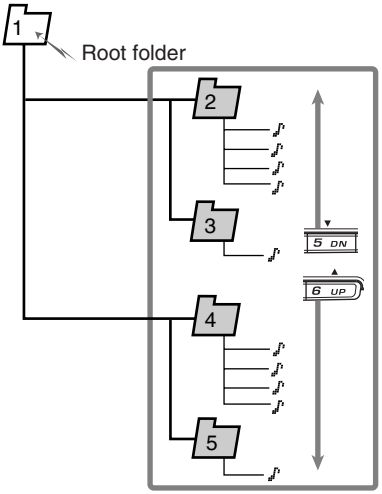
English

Folder Select

This function allows you to select a folder containing MP3 files and start playing from the first track in the folder.

∗ This function can only be used from this unit.

1. Press the [**UP**] or [**DN**] button.
   Press the [**DN**] button to move to the previous folder.
   Press the [**UP**] button to move to the next folder.



   ∗ Press the [**UP**] button while in the final folder to shift to the first folder.
   ∗ Folder without an MP3 file is not selectable.
2. To select a track, press the [◀◀] or [▶▶] button.

Fast forward and fast rewind

Press and hold the Fast forward [▶▶] button or Fast rewind [◀◀] button during playback.

∗ Press the button, and the playback speed becomes 4-time faster first and then 8-time faster 3 seconds later. Release the button, and the normal speed is restored.

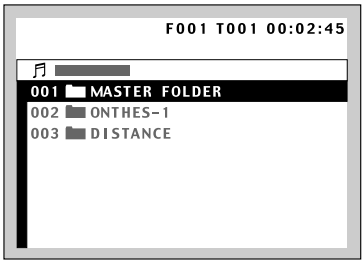
Selecting a track on the screen

∗ This function can only be used from the remote control unit.

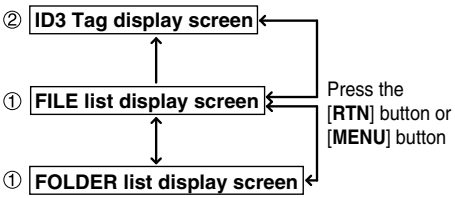
Select a desired file with the Cursor button ("▲" and "▼") and press the [**ENT**] button.

∗ Play starts.

• Example showing FOLDER list display.



Screen selection flow



① Select with the Cursor button ("▲" and "▼") and determine with the [**ENT**] button.

② In case of a file on which ID3 Tag information data have been recorded...
If any cursor button input was not made for a specified period of time after file selection, ID3 Tag screen is displayed.

Playback by selecting a folder and track (Direct select mode)

This operation allows searching using the folder and track numbers recorded on the MP3 disc.

∗ This function can only be used from the remote control unit.

1. Press the [**SEARCH MODE**] button during playback.
   ∗ Each time you press the button, you can switch between "**T000**" for track number input and "**F000**" for folder number input.
2. Input the number for the track or folder that you want to play back with the ten-key buttons (0 to 9).
3. Press the [**ENT**] button on the remote control unit.

When you select the folder number playback starts from Track 1 of the input folder number.

When you are searching for some other folder and track while a file is being played, pressing the [**MENU**] button will return to the file being played.

Searching a desired track (Track scan playback)

● **About track scan playback**
This operation plays back all tracks recorded on the disc, about 10 seconds for each.

Press the [**SCN**] button.
- ∗ The monitor displays "**TRACK SCN**".
- • Scan playback starts from the next track.

■ **To cancel track scan playback**

Press the [**SCN**] button again.
- ∗ The playback status indication "**TRACK SCN**" goes off from the monitor and the track currently being played back continues.

Searching for a desired folder (Folder scan playback)

● **About folder scan playback**
This operation plays back the first tracks of all folders on the MP3 disc, about 10 seconds for each.

Press the [**SCN**] button for 1 second or longer.
- ∗ The monitor displays "**FOLDER SCN**" and folder scan playback starts.
- • Scan playback starts from the first track of the next folder to the one currently being played back.

■ **To cancel folder scan playback**

Press the [**SCN**] button again.
- ∗ The playback status indication "**FOLDER SCN**" goes off from the monitor and the track currently being played back continues.

Listening to one track repeatedly (Track repeat playback)

● **About track repeat playback**
This operation plays back the track currently being played back repeatedly.

Press the [**RPT**] button.
- ∗ The monitor displays "**TRACK RPT**" and track repeat playback starts.

■ **To cancel track repeat playback**

Press the [**RPT**] button again.
- ∗ The playback status indication "**TRACK RPT**" goes off from the monitor and the track currently being played back continues in normal playback.

Listening to tracks in a folder repeatedly (Folder repeat playback)

● **About folder repeat playback**
This operation plays back tracks in an MP3 folder repeatedly.

Press the [**RPT**] button for 1 second or longer.
- ∗ The monitor displays "**FOLDER RPT**" and folder repeat playback starts.

■ **To cancel folder repeat playback**

Press the [**RPT**] button again.
- ∗ The playback status indication "**FOLDER RPT**" goes off from the monitor and the track currently being played back continues in normal playback.

Listening to tracks in a random order (Track random playback)

● **About track random playback**
This operation plays the tracks in the folder in a random order.

Press the [**RDM**] button.
- ∗ The monitor displays "**TRACK RDM**" and random playback starts.

■ **To cancel track random playback**

Press the [**RDM**] button again.
- ∗ The playback status indication "**TRACK RDM**" goes off from the monitor and the track currently being played back continues in normal playback.

Listening to tracks in a random order (Folder random playback)

● **About folder random playback**
This operation plays back tracks recorded on the disc in no particular order.

Press the [**RDM**] button for 1 second or longer.
- ∗ The monitor displays "**FOLDER RDM**" and folder random playback starts.

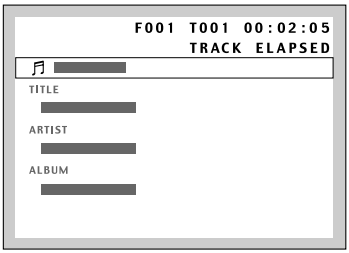
■ **To cancel folder random playback**

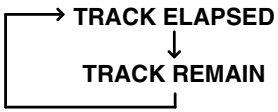
Press the [**RDM**] button again.
- ∗ The playback status indication "**FOLDER RDM**" goes off from the monitor and the track currently being played back continues in normal playback.

Changing the display of the playback status

* This function can only be used from the remote control unit.

By pressing the [**P.TIME]** button for 1 second or longer, you can switch among time displays.





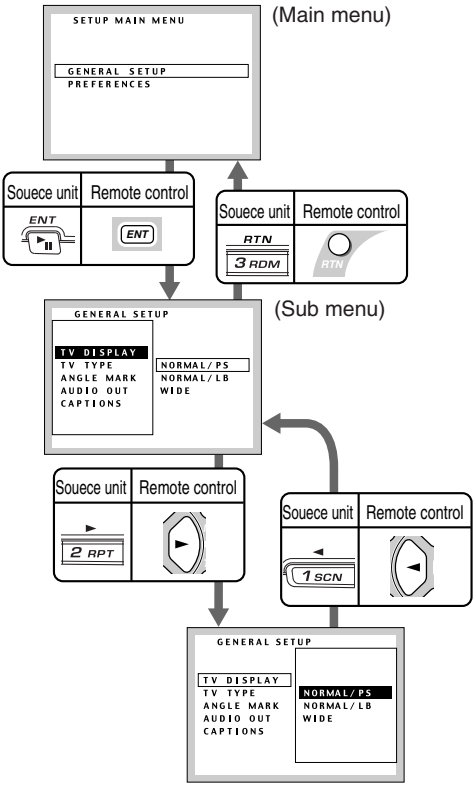
Changing Initial Settings such as Menu Language, etc.

Menu settings described in this section are displayed on the monitor.

If the set language has not been recorded on the disc, the language specified on the disc is used for display.

Selecting the monitor menu

1. Press the [**SET UP**] button on the remote control unit or press and hold the [**A**] button on the unit for 1 second or longer to display the main menu.
2. Select **GENERAL SETUP** or **PREFERENCES** with the "▲" or "▼" button and press the [**ENT**] to enter.
3. Press the "▲" or "▼" button to select the left menu item.
4. Press the "►" button to go to the option list.
5. Press the "◄" button to go to back to the left menu item.
6. Press the [**RTN**] button to display the main menu.
7. Press the [**SET UP**] button to return to the original mode from the set-up mode engaged.

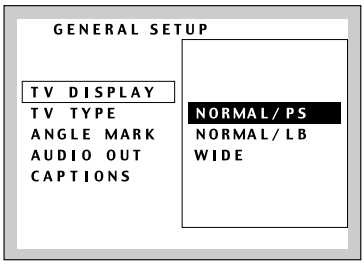


Setting up the screen size

Set up the screen size according to the TV monitor to which the unit is connected.

∗ The factory default setting is "**NORMAL/PS**".

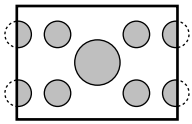
1. Following the steps 1 to 4 in "**Selecting the monitor menu**", select "**TV DISPLAY**" from "**GENERAL SETUP**".



2. Press the "▲" or "▼" button to select a screen size.
   ∗ The color of the selected item changes.

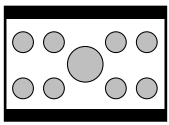
● **When watching through a conventional TV monitor (4:3)**

- **NORMAL/PS** : The leftmost and rightmost areas of the screen are cut off.



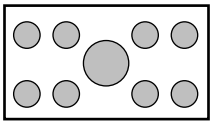
This function allows displaying the important part of image fully on the screen. In some cases, image is displayed while being panned (scrolled).

- **NORMAL/LB** : A black zone is created in the top and bottom areas of the screen.



This method displays Cinema Scope and Vista Vision images without cutting them off by creating a black zone on the top and bottom gaps.

● **When watching through a wide TV monitor (16:9)**
• **WIDE**:



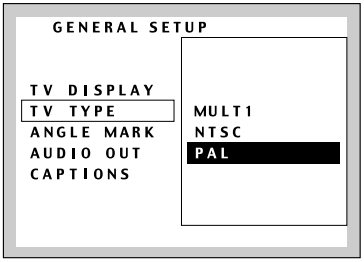
3. Press the [**ENT**] button to enter.

Setting up the TV type

Set the TV type to NTSC, PAL, MULTI.

∗ The factory default setting is "**PAL**" or "**MULTI**".

1. Following the steps 1 to 4 in "**Selecting the monitor menu**", select "**TV TYPE**" from "**GENERAL SETUP**".



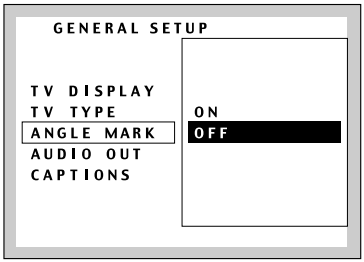
2. Press the "▲" or "▼" button to select MULTI, NTSC or PAL.
3. Press the [**ENT**] button.
   • This setting can also be changed in the Adjust Mode. Refer to the subsection "**Setting up the TV type**" in the section "**TV Operations**" for details.

Setting up the angle mark display

You can set up so that the angle mark appears on scenes where the angles can be switched.

∗ The factory default setting is "**OFF**".

1. Following the steps 1 to 4 in "**Selecting the monitor menu**", select "**ANGLE MARK**" from "**GENERAL SETUP**".



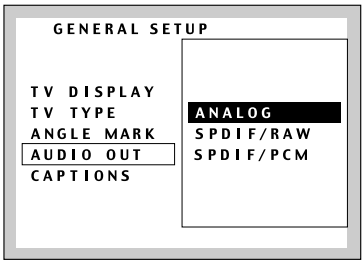
2. Press the "▲" or "▼" button to select ON or OFF.
3. Press the [**ENT**] button.

Setting up the output mode for audio signals

You cannot set AUDIO OUT to ANALOG if the wiring is digital. Even if you select ANALOG, the settings return to the original setting when you close the SETUP MAIN MENU.

∗ The factory default setting is "**ANALOG**".

1. Following the steps 1 to 4 in "**Selecting the monitor menu**", select "**AUDIO OUT**" from "**GENERAL SETUP**".



2. Press the"▲" or "▼" button to select ANALOG, SPDIF/RAW, or SPDIF/PCM.
   • **ANALOG:**
   Outputs analog audio signals through RCA connection.
   • **SPDIF/RAW:**
   Outputs 5.1ch digital signals through optical connection.
   PCM audio signals are output downsampling the signal from 96 KHz to the lower sampling rate, 48 KHz.
   • **SPDIF/PCM:**
   This mode can not be selected.
3. Press the [**ENT**] button.
   However, if the wiring is digital, then it is SPDIF/RAW.

Setting up the subtitle display

You cannot set the CAPTIONS to ON from this unit. Even if you select ON, it will

automatically return to OFF when you close the SETUP MAIN MENU.

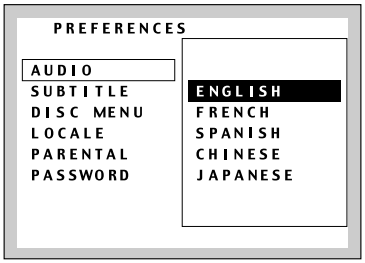
∗ The factory default setting is “**OFF**”.

This function can not be operated on this player.

Setting up the audio language

∗ The factory default setting is “**ENGLISH**”.

1. Following the steps 1 to 4 in “**Selecting the monitor menu**”, select “**AUDIO**” from “**PREFERENCES**”.
2. Press the “▲” or “▼” button to select a language to be used.



Languages SELECT in the order:

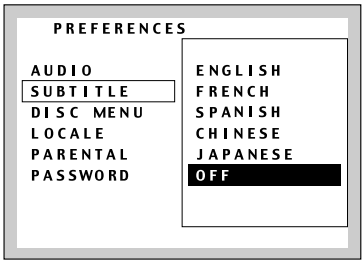
ENGLISH
↕
FRENCH
↕
SPANISH
↕
CHINESE
↕
JAPANESE

3. Press the [**ENT**] button.

Setting up the subtitle language

∗ The factory default setting is “**OFF**”.

1. Following the steps 1 to 4 in “**Selecting the monitor menu**”, select “**SUBTITLE**” from “**PREFERENCES**”.
2. Press the “▲” or “▼” button to select a language to be used.



Languages SELECT in the order:

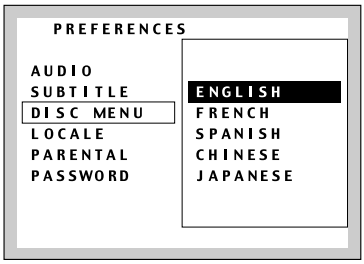
ENGLISH
↕
FRENCH
↕
SPANISH
↕
CHINESE
↕
JAPANESE
↕
OFF

3. Press the [**ENT**] button.

Setting up the disc menu language

∗ The factory default setting is “**ENGLISH**”.

1. Following the steps 1 to 4 in “**Selecting the monitor menu**”, select “**DISC MENU**” from “**PREFERENCES**”.
2. Press the “▲” or “▼” button to select a language to be used.



Languages SELECT in the order:

ENGLISH
↕
FRENCH
↕
SPANISH
↕
CHINESE
↕
JAPANESE

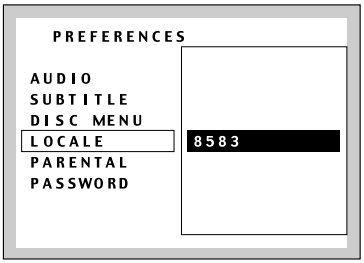
3. Press the [**ENT**] button.

Setting up the country code

Set up the country number for setting up of the parental level.

∗ The default setting is "**8583**" (US).

1. Following the steps 1 to 4 in "**Selecting the monitor menu**", select "**LOCALE**" from "**PREFERENCES**".



2. Press the [**ENT**] button to display the input screen.
3. Press the ten-key buttons to input a 4-digit country number.
4. Press the [**ENT**] button.

■ Country code list

Country	Input code
Region number 3	
BRUNEI DARUSSALAM	6678
Kingdom of Cambodia	7572
INDONESIA	7368
KOREA, DEMOCRATIC PEOPLE'S REPUBLIC OF	7580
KOREA,REPUBLIC OF	7582
LAO PEOPLE'S DEMOCRATIC REPUBLIC	7665
MALAYSIA	7789
MYANMAR	7777
PHILIPPINES	8072
SINGAPORE	8371
THAILAND	8472
VIET NAM	8678
EAST TIMOR	8480
HONG KONG	7275
MACAU	7779
TAIWAN, PROVINCE OF CHINA	8487
Region number 4	
ANTIGUA AND BARBUDA	6571
ARGENTINA	6582
AUSTRALIA	6585
BAHAMAS	6683
BARBADOS	6666
BELIZE	6690
BOLIVIA	6679
BRAZIL	6682
CHILE	6776
COLOMBIA	6779
COSTA RICA	6782
CUBA	6785
DOMINICA	6877
DOMINICAN REPUBLIC	6879
ECUADOR	6967
EL SALVADOR	8386
FIJI	7074
GRENADA	7168
GUATEMALA	7184
GUYANA	7189
HAITI	7284
HONDURAS	7278
JAMAICA	7477
KIRIBATI	7573
MARSHALL ISLANDS	7772
MEXICO	7788

Country	Input code
MICRONESIA, FEDERATED STATES OF	7077
NAURU	7882
NEW ZEALAND	7890
NICARAGUA	7873
PALAU	8087
PANAMA	8065
PAPUA NEW GUINEA	8071
PARAGUAY	8089
PERU	8069
SAINT KITTS AND NEVIS	7578
SAINT LUCIA	7667
SAINT VINCENT AND THE GRENADINES	8667
SAMOA	8783
SOLOMON ISLANDS	8366
SURINAME	8382
TONGA	8479
TRINIDAD AND TOBAGO	8484
TUVALU	8486
URUGUAY	8589
VANUATU	8689
VENEZUELA	8669
ANGUILLA	6573
ARUBA	6587
VIRGIN ISLANDS (BRITISH)	8671
CAYMAN ISLAND	7589
CHRISTMAS ISLAND	6789
COCOS (KEELING) ISLANDS	6767
COOK ISLANDS	6775
FALKLAND ISLANDS (MALVINAS)	7075
FRENCH GUIANA	7170
FRENCH POLYNESIA	8070
GUADELOUPE	7180
GUAM	7185
MARTINIQUE	7781
MONTSERRAT	7783
NETHERLANDS ANTILLES	6578
NEW CALEDONIA	7867
NIUE	7885
NORFOLK ISLAND	7870
NORTHERN MARIANA ISLANDS	7780
PITCAIRN	8078
TOKELAU	8475
TURKS AND CAICOS ISLANDS	8467
WALLIS AND FUTUNA ISLANDS	8770

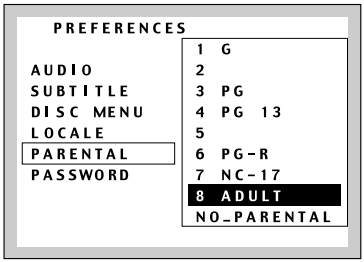
Setting up the parental level

You can change the level of parental lock (audio-visual restriction).

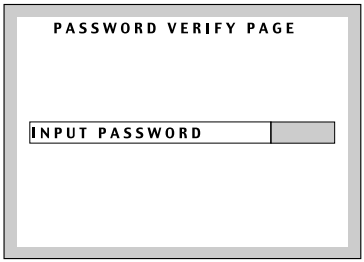
This function allows cutting scenes that are unfavorable for children or replacing them automatically with other scenes prepared in advance. For example, by replacing scenes of radical violence or portrayals of sex with safe scenes, you can make a trouble-free story as if it were so from the beginning.

∗ The factory default setting is level "**8**".

1. Following the steps 1 to 4 in "**Selecting the monitor menu**", select "**PARENTAL**" from "**PREFERENCES**".
2. Press the "▲" or "▼" button to select a parental level.
   You can select from 1 to 8 or NO_PARENTAL.



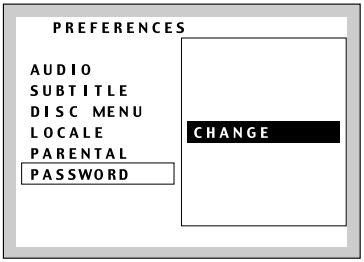
3. Press the [**ENT**] button to display the PASSWORD VERIFY PAGE screen.

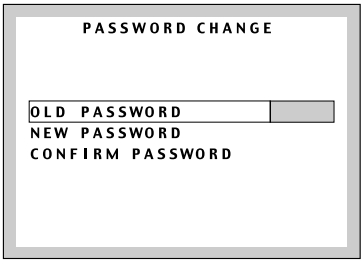


4. Press the ten-key buttons to input a 4-digit password.
   ∗ Factory default setting is "**0000**".

Setting up the password for setting up of the parental level

1. Following the steps 1 to 4 in "**Selecting the monitor menu**", select "**PASSWORD**" from "**PREFERENCES**".





2. Press the [**ENT**] button to display the PASSWORD CHANGE screen.
3. Input an old password.
4. Input a new password.
5. Input a confirm password.

It is recommended that you take down a memo about the password and keep it safely to avoid forgetting it.
If you forget your password, you can set a new password by entering [4356] as the OLD PASSWORD.

Note:
When a disc with view limited is played
- *When a disc with view limited is played, the input screen requiring you to input the password may appear. When this happens, enter the correct password, otherwise play does not start.*

Different pieces of music heard by plural listeners (2-ZONE function)

About the 2-ZONE function

The 2-ZONE function is a function that outputs separate sounds from the MAIN zone and SUB zone by simultaneously operating ttwo sources in the one center unit, thereby allowing plural listeners to enjoy separate music sources.

This unit can control its internal sources (radio, DVD, etc.) to play back them, and further, can simultaneously play back sources from external equipment connected via CeNET (for instance, CD changers etc.).

The sources of the MAIN zone are played back from the speakers of the vehicle side, and those of the SUB zone are from the headphone systems (WH104/WH204).

Notes:
- *Except AUX, the MAIN and SUB zones cannot simultaneously use sources inside this unit. Also, external equipment connected via CeNET cannot simultaneously be used.*
- *The TV mode while the 2-ZONE function is tuned on is forced to change to "**VTR playback**".*
- *The ISR function cannot be operated when the 2-ZONE function is turned on.*
- *The Audio mode and Z-enhancer function cannot be set for the sources of the SUB zone.*

Setting the 2-ZONE function

* Factory default setting is "**OFF**".
When you have set the 2-ZONE function to "**ON**" in the initial state, the MAIN zone services for sources inside this unit and the SUB zone, fro AUX. Changing a source during later use causes the latest heard source to be invoked.

Press and hold the [2] button for 1 second or longer to turn on or off. When the 2-ZONE function is turned on, "**2-ZONE ON**" on the display lights.

Switching sources

1. Press the [2] button to select the control zone ("**MAIN**" or "**SUB**").
   Every time the button is pressed, the "**MAIN ZONE**" changes to the "**SUB ZONE**" or vice versa.
   "**MAIN**" or "**SUB**" on the display lights at that time, thereby indicating that the relevant zone becomes ready to operate.
2. Press the [**FNC**] button to select a source in the control zone.
   Every time the button is pressed, the followings appear in turn.
   ● **For a source group included in this unit**:
   Radio ➜ DVD ➜ AUX ➜ Radio...
   ● **For a source group in external equipment**:
   AUX ➜ CD change ➜ DVD changer ➜ TV AUX...
   * The name of equipment that is not connected to this unit is not displayed.
   • To change a current musical performance etc., press the button that controls the selected source ([**SCN**] button, etc.).

● **Example for source change**

Oparation	MAIN zone	SUB zone
2-ZONE turned off	Radio playback ↓	Radio playback ↓
2-ZONE turned on	Radio playback ↓	AUX ↓
2-ZONE turned off	Radio playback ↓	Radio playback ↓
Source change	External equipment (CD changer) ↓	External equipment (CD changer) ↓
2-ZONE turned on	External equipment (CD changer)	Radio playback

Adjusting the sound level for the MAIN zone

You can adjust the sound level only for the MAIN zone. To adjust the sound level for the SUB zone, adjust it in the headphone (WH104/WH204) side.

Turning the [**ROTARY**] knob to adjust the sound level for the MAIN zone.

Counterchanging the sources of the MAIN and SUB zones

You can supersede the music sources of the MAIN and SUB zones.

Press and hold the [**ISR**] button for 1 second or longer to counterchange the sources of the MAIN and SUB zones.

"**REVERSE**" is displayed for 2 seconds on the display.

When you are using the 2-ZONE function with the DVD mode and the DVD Change mode, or the DVD mode and the TV mode, you can switch the audio only if you switch the MAIN zone and the SUB zone.

Operations Common to Each Mode

Setting the clock

1. Press the [**A**] button to switch to the adjustment selection display.
2. Press the [◀◀] or [▶▶] button to select "**CLOCK E**".
3. Press the [▶II] button.
4. Press the [◀◀] or [▶▶] button to select the hour or the minute.
5. Turn the [**ROTARY**] knob clockwise or counterclockwise to set the correct time.
   * The clock is displayed in 12-hour format.
6. Press the [▶II] button to store the time into memory.
7. Press the [**A**] button to return to the previous mode.

Note:

- *You cannot set the clock when it is displayed with only the ignition on. If you drain or remove the car's battery or take out this unit, the clock is reset. While setting the clock, if another button or operation is selected, the clock set mode is canceled.*

Turning the screen saver function on or off

This unit is provided with the screen saver function which allows you to show various kinds of patterns and characters in the Operation Status indication area of the display in a random order. You can turn on and off this function.

If the button operation is performed with the screen saver function on, the operation display corresponding to the button operation is shown for about 30 seconds and the display returns to the screen saver display.

* The factory default setting is "**ON**".

1. Press the [**A**] button to switch to the adjustment selection display.
2. Press the [◀◀] or [▶▶] button to select "**SCRN SVR E**".
3. Press the [▶II] button.
4. Turn the [**ROTARY**] knob clockwise or counterclockwise to select the setting. Each time you turn the [**ROTARY**] knob, the setting changes in the following order:

   SS OFF ➜ SS ON ➜ SS MESSAGE
5. Press the [▶II] button to store the setting.
6. Press the [**A**] button to return to the previous mode.

Entering MESSAGE INFORMATION

When the use of the message is selected for the screen saver setting, you can change the contents of the message.

* Up to 30 characters can be entered.
* The factory default setting is "**Welcome to Clarion**".

1. Press the [**A**] button to switch to the adjustment selection display.
2. Press the [◀◀] or [▶▶] button to select "**MSG INPUT E**".
3. Press the [▶II] button.
4. Press the [**BND**] button to clear the old message.
5. Press the [◀◀] or [▶▶] button to move the cursor.
6. Press the [**DISP**] button to select a character. Each time you press the [**DISP**] button, the character changes in the following order:

   Capital letters ➜ Small letters ➜ Numbers and Symbols ➜ Umlaut ➜ Capital letters...
7. Turn the [**ROTARY**] knob to select the desired character.
8. Repeat step 5 to 7 to enter up to 30 characters for message.
9. Press and hold the [▶II] button for 2 seconds or longer to store the message in memory and cancel input message.
10. Press the [**A**] button to return to the previous mode.

Message display

When the unit is powered on or off, a message is displayed. The user can turn this message display ON or OFF.

* The factory default setting is "**ON**".

1. Press the [**A**] button to switch to the adjustment selection display.
2. Press the [◀◀] or [▶▶] button to select "**MESSAGE**".
3. Turn the [**ROTARY**] knob clockwise or counterclockwise to set the message display ON or OFF.
4. Press the [**A**] button to return to the previous mode.

Setting the method for title scroll

Set how to scroll in CD-TEXT, MP3 Title while in the CD changer mode.

* The factory default setting is "**ON**".

1. Press the [**A**] button to the adjustment selection display.
2. Press the [◀◀] or [▶▶] button to select "**AUTO SCRL**".
3. Turn the [**ROTARY**] knob clockwise or counterclockwise and select "**ON**" or "**OFF**".
   ON:
   To scroll automatically.
   OFF:
   To scroll just 1 time when the title was changed or the [**A**] button was pressed and hold for 1 second or longer.
4. Press the [**A**] button to return to the previous mode.

Dimmer control

You can set the dimmer control "**ON**" or "**OFF**".

* The factory default setting is "**ON**".

1. Press the [**A**] button to switch to the adjustment selection display.
2. Press the [◀◀] or [▶▶] button to select "**DIMMER**".
3. Turn the [**ROTARY**] knob clockwise to "**ON**" or counterclockwise to "**OFF**".
4. Press the [**A**] button to return to the previous mode.

Adjusting the display contrast

You can adjust the display contrast to match the angle of installation of the unit.

* The factory default setting is "**8**". (Adjustment level: 1 to 16)

1. Press the [**A**] button to switch to the adjustment selection display.
2. Press the[◀◀] or [▶▶] button to select "**CONTRAST**".
3. Turn the [**ROTARY**] knob clockwise or counterclockwise to adjust the contrast.
4. Press the [**A**] button to return to the previous mode.

Setting the Subwoofer

* The factory default setting is "**SUB-W ON**".

1. Press the [**A**] button to switch to the adjustment selection display.
2. Press the [◀◀] or [▶▶] button and select "**SUB-WOOFER**".
3. Turning the [**ROTARY**] knob clockwise or counterclockwise and select "**ON**" or "**OFF**".
4. Press the [**A**] button to return to the previous mode.

Setting LOW PASS FILTER

* This function can be adjusted only when the subwoofer output is set to "**ON**". For details on "**Setting the Subwoofer**", refer to the section "**Operations Common to Each Mode**" of each owner's manual.
* The factory default setting is "**LPF THRGH**".

1. Press the [**A**] button to switch to the adjustment selection display.
2. Press the [◀◀] or [▶▶] button to select "**SUB-W LPF**".
3. Turn the [**ROTARY**] knob clockwise or counterclockwise to select the setting. Each time you turn the [**ROTARY**] knob, the setting changes in the following order:
   LPF THRGH ➜ LPF 50Hz ➜ LPF 80Hz ➜ LPF 120Hz
4. Press the [**A**] button to return to the previous mode.

Selecting the external amplifier

Set AMP CANCEL to "**ON**" (internal amplifier use OFF) when an external amplifier is connected and the internal amplifier is not used.

* The factory default setting is "**OFF**".

1. Press the [**A**] button to switch to the adjustment selection display.
2. Press the [◀◀] or [▶▶] button and select "**AMP CANCEL**".
3. Turning the [**ROTARY**] knob clockwise or counterclockwise and select "**ON**" or "**OFF**".
   ON:
   Use with connecter AMP.
   OFF:
   Use with inside AMP.
4. Press the [**A**] button to return to the previous mode.

Selecting AUX IN sensitivity

Make the following settings to select the sensitivity when sounds from external devices connected to this unit are difficult to hear even after adjusting the volume.

* The factory default setting is "**MID**".

1. Press the [**A**] button to switch to the adjustment selection display.
2. Press the [◀◀] or [▶▶] button to select "**AUX SENS**".
3. Turn the [**ROTARY**] knob clockwise or counterclockwise as needed and select from "**HIGH**", "**MID**" or "**LOW**".
4. Press the [**A**] button to return to the previous mode.

Entering titles

Titles up to 10 characters long can be stored in memory and displayed for CD changer and TV stations. The number of titles that can be entered for each mode are as follows.

Mode	Number of titles
TV mode	20 titles
Radio mode	30 titles

CD changer mode	Number of titles
DCZ625 connected	100 titles
CDC655Tz connected	100 titles
CDC1255z connected	50 titles

1. Press the [**FNC**] button to select the mode you want to enter a title (Radio, CD changer or TV).
2. Select and play a CD in the CD changer or tune in to a TV station or Radio for which you want to enter the title.
3. Press the [**DISP**] button and display the main.
4. Press and hold the [**A**] button for 1 second or longer.
5. Press the [◀◀] or [▶▶] button to move the cursor.
6. Press the [**DISP**] button to select a character. Each time you press the [**DISP**] button, the character changes in the following order:

   Capital letters ➜ Small letters ➜ Numbers and Symbols ➜ Umlaut ➜ Capital letters...
7. Turn the [**ROTARY**] knob to select the desired character.
8. Repeat steps 5 to 7 to enter up to 10 characters for the title.
9. Press and hold the [▶❚❚] button for 2 seconds or longer to store the title into memory and cancel title input mode.

Clearing titles

1. Select and play a CD in the CD changer or tune in to a TV station or Radio for which you want to clear the title.
2. Press the [**DISP**] button and display the main.
3. Press and hold the [**A**] button for 1 second or longer.
   The display switches to the title input display.
4. Press the [**BND**] button.
5. Press and hold the [▶❚❚] button for 2 second or longer to clear the title and cancel title input mode.

Triggered audio mute for cellular telephones

This unit requires special wiring to mute the audio signal automatically when a cellular telephone rings in the car.

* This function is not compatible with all cellular telephones Contact your local authorized Clarion dealer for information on proper installation and compatibility.

AUX function

This system has an external input jack so you can listen to sounds and music from external devices connected to this unit.

9. OPERATIONS OF ACCESSORIES

CD Changer Operations

CD changer functions

When an optional CD changer is connected through the CeNET cable, this unit controls all CD changer functions. This unit can control a total of 2 changers.

Press the [**FNC**] button and select the CD changer mode to start play. If 2 CD changers are connected, press the [**FNC**] button to select the CD changer for play.

∗ If "**NO MAG**" appears in the display, insert the magazine into the CD changer. "**DISC CHECK**" appears in the display while the player loads (checks) the magazine.
∗ If "**NO DISC**" appears in the display, eject the magazine and insert discs into each slot. Then, reinsert the magazine back into the CD changer.

Note:

• Some CDs recorded in CD-R/CD-RW mode may not be usable.

⚠CAUTION

CD-ROM discs cannot be played from every CD changer, it's depended on the model.

Pausing play

1. Press the [▶❚❚] button to pause play. "**PAUSE**" appears in the display.
2. To resume play, press the [▶❚❚] button again.

Displaying CD titles

This unit can display title data for CD-text CDs and user titles input with this unit.

∗ Title data for CD-text CDs can be displayed with this unit only when it is connected to CDC655Tz.

● **When connected to DCZ625 or CDC1255z**
Press the [**DISP**] button to display the title.

● **When connected to CDC655Tz**

1. Press the [**DISP**] button to display the title.
2. Each time you press and hold the [**DISP**] button for 1 second or longer, the title display changes in the following order:

   User title (disc) ➜ CD-text title (disc) ➜ Artist name ➜ CD-text title (track) ➜ User title (disc)…

Notes:

*• If the CD playing is not a CD-text CD or no user title has been input, "**NO TITLE**" appears in the display.*
*• If a CD-text CD is not input its disc title or a track title, "**NO TITLE**" appears in the display.*

Procedure to scroll a title

Set "**AUTO SCRL**" to "**ON**" or "**OFF**".

(The factory default setting is "ON". Refer to the subsection "**Setting the method for title scroll**" in section "**Operation common to each mode**".)

● **When set to "ON"**
The title is automatically kept scrolling.

● **When set to "OFF"**
To scroll just 1 time when the title was changed or the [**A**] button was pressed and hold for 1 second or longer.

Selecting a CD

Press the [**UP**] or [**DN**] button to select the desired disc.

∗ If a CD is not loaded in a slot of magazine, pressing the [**UP**] or [**DN**] button can not work.

Selecting a track

● **Track-up**

1. Press the [▶▶] button to move ahead to the beginning of the next track.
2. Each time you press the [▶▶] button, the track advances ahead to the beginning of the next track.

● **Track-down**

1. Press the [◀◀] button to move back to the beginning of the current track.
2. Press the [◀◀] button twice to move to the beginning of the previous track.

Fast-forward/Fast-backward

● **Fast-forward**
Press and hold the [▶▶] button for 1 second or longer.

● **Fast-backward**
Press and hold the [◀◀] button for 1 second or longer.

English

Scan play

Scan play locates and plays the first 10 seconds of each track on a disc automatically. This function continues on the disc until it is cancelled.

* The scan play is useful when you want to select a desired track.

1. Press the [**SCN**] button to start track scanning. "**SCN**" lights in the display.
2. To cancel the scan play, press the [**SCN**] button again. "**SCN**" goes off from the display and the current track continues to play.

Disc scan play

Disc scan play locates and plays the first 10 seconds of the first track on each disc in the currently selected CD changer. This function continues automatically until it is cancelled.

* Disc scan play is useful when you want to select a desired CD.

1. Press and hold the [**SCN**] button for 1 second or longer. "**DISC**" and "**SCN**" light in the display and disc scan play starts.
2. To cancel disc scan play, press the [**SCN**] button again. "**DISC**" and "**SCN**" go off from the display and the current track continues to play.

Repeat play

Repeat play continuously plays the current track. This function continues automatically until it is cancelled.

1. Press the [**RPT**] button. "**RPT**" lights in the display and the current track is repeated.
2. To cancel repeat play, press the [**RPT**] button again. "**RPT**" goes off from the display and normal play resumes.

Disc repeat play

After all the tracks on the current disc have been played, disc repeat play automatically replays the current disc over from the first track. This function continues automatically until it is cancelled.

1. Press and hold the [**RPT**] button for 1 second or longer. "**DISC**" and "**RPT**" light in the display and disc repeat play starts.
2. To cancel disc repeat play, press the [**RPT**] button again. "**DISC**" and "**RPT**" go off from the display and normal play resumes on the current track.

Random play

Random play selects and plays individual tracks on the disc in no particular order. This function continues automatically until it is cancelled.

1. Press the [**RDM**] button. "**RDM**" lights in the display and random play begins.
2. To cancel random play, press the [**RDM**] button again. "**RDM**" goes off from the display and normal play resumes.

Disc random play

The disc random play selects and plays individual tracks or discs automatically in no particular order. This function continues automatically until it is cancelled.

1. Press and hold the [**RDM**] button for 1 second or longer. "**DISC**" and "**RDM**" light in the display and disc random play starts.
2. To cancel disc random play, press the [**RDM**] button again. "**DISC**" and "**RDM**" go off from the display and normal play resumes from the current track.

TV tuner functions

When an optional TV tuner is connected through the CeNET cable, this unit controls all TV tuner functions. To watch TV requires a TV tuner and monitor.

Watching a TV

1. Press the [**FNC**] button and select the TV mode.
2. Switch the monitor image.
3. Press the [**BND**] button to select the desired TV band (TV1 or TV2). Each time the button is pressed, the input selection toggles between TV1 and TV2.
4. Press the [◀◀] or [▶▶] button to tune in the desired TV station.

Watching a video

The TV tuner has a VTR input terminal to which 1 external device can be connected. Connect a 12 V video cassette player (VCP) or video cassette recorder (VCR) to the TV tuner input terminal.

1. Press the [▶❚❚] button to select VTR.
2. To return to the TV broadcast, press the [▶❚❚] button.

Tuning

There are 3 types of tuning mode available, Seek tuning, manual tuning and preset tuning.

Seek tuning

1. Press the [**BND**] button and select the desired TV band (TV1 or TV2).
   * If “MANU” is lit in the display, press and hold the [**BND**] button for 1 second or longer. “**MANU**” in the display goes off and seek tuning is now available.
2. Press the [◀◀] or [▶▶] button to automatically seek a station. Press the [▶▶] button to automatically tune up the frequency band to the next available TV station; press the [◀◀] button to automatically tune down.

Manual tuning

There are 2 ways available: Quick tuning and step tuning.

When you are in the step tuning mode, the frequency changes one step at a time. In the quick tuning mode, you can quickly tune the desired frequency.

1. Press the [**BND**] button and select the desired band (TV1 or TV2).
   * If “**MANU**” is not lit in the display, press and hold the [**BND**] button for 1 second or longer. “**MANU**” lights in the display and manual tuning is now available.
2. Tune into a station.

● **Quick tuning:**
Press and hold the [◀◀] or [▶▶] button for 1 second or longer to tune in a station.

● **Step tuning:**
Press the [◀◀] or [▶▶] button to manually tune in a station.

Recalling a preset station

A total of 12 TV stations can be stored (6-TV1 and 6-TV2). This allows you to select your favorite TV stations and store them in memory for later recall.

1. Press the [**BND**] button and select the desired TV band (TV1 or TV2).
2. To recall a stored TV station, press the desired [**DIRECT**] button to select that station.
   * Press and hold one of the [**DIRECT**] buttons for 2 seconds or longer to store the current station into preset memory.

Manual memory

1. Select the desired station with seek tuning, manual tuning or preset tuning.
2. Press and hold one of [**DIRECT**] buttons for 2 seconds or longer to store the current station into preset memory.

Auto store

Auto store selects 6 TV stations automatically and stores each one into preset memory.

If there are not 6 stations with good reception, stations previously stored in memory remain and only the strong stations are stored into memory.

1. Press the [**BND**] button and select the desired TV band (TV1 or TV2).
2. Press and hold the [**P/A**] button for 2 seconds or longer. The stations with good reception are stored automatically to the preset channels.

Preset scan

Preset scan allows the user to view each preset position before it automatically advances to the next preset. This function is useful for searching for a desired TV station in memory.

1. Press the [**P/A**] button.
2. When the desired station is found, press the [**P/A**] button again to remain tuned to that station.

Note:

- *Do not press and hold the [**P/A**] button for 2 seconds or longer. Doing so will trigger the auto store function and start storing stations into memory.*

Setting up the TV type

Set the TV type to NTSC, PAL, MULTI.

1. Press the [**A**] button to switch to the adjustment selection display.
2. Press the [◀◀] or [▶▶] button to select "**TV TYPE**".
3. Turn the [**ROTARY**] knob clockwise or counterclockwise to select the setting. Each time you turn the [**ROTARY**] knob, the setting changes in the following order:

   MULTI ➜ NTSC ➜ PAL
4. Press the [**A**] button to return to the previous mode.

Setting the TV area

When you select the TV area (TV reception area), the TV tuner area setting changes.

1. Press the [**A**] button to switch to the adjustment selection display.
2. Press the [◀◀] or [▶▶] button to select "**TV AREA E**".
3. Press the [▶❚❚] button.
4. Turn the [**ROTARY**] knob clockwise or counterclockwise to select the reception area.
5. Press the [▶❚❚] button.
6. Press the [**A**] button to return to the previous mode.

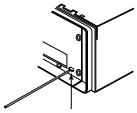
The above operations are required when a TV tuner other than TTX7501z is connected.

Setting the TV diver

You can change the reception setting for the TV antenna connected to the TV tuner.

1. Press the [**A**] button to switch to the adjustment selection display.
2. Press the [◀◀] or [▶▶] button to select "**TV DIVER**".
3. Turn the [**ROTARY**] knob clockwise to set to "**ON**" or counterclockwise to set to "**OFF**".
   ON:
   Sets the diver setting to ON.
   OFF:
   Sets the diver setting to OFF.
4. Press the [**A**] button to return to the previous mode.

10. IN CASE OF DIFFICULTY

	Problem	Cause	Measure
General	Power does not turn on. (No sound is produced.)	Fuse is blown.	Replace with a fuse of the same amperage. If the fuse blows again, consult your store of purchase.
		Incorrect wiring.	Consult your store of purchase.
	No sound output when operating the unit with amplifiers or power antenna attached.	Power antenna lead is shorted to ground or excessive current is required for remote-on the amplifiers or power antenna.	1. Turn the unit off. 2. Remove all wires attached to the power antenna lead. Check each wire for a possible short to ground using an ohm meter. 3. Turn the unit back on. 4. Reconnect each amplifier remote wire to the power antenna lead one by one. If the amplifiers turn off before all wires are attached, use an external relay to provide remote-on voltage (excessive current required).
	Nothing happens when buttons are pressed. Display is not accurate.	The microprocessor has malfunctioned due to noise, etc.	Turn off the power, then press the [**RELEASE**] button and remove the DCP. Press the reset button for about 2 seconds with a thin rod.  Reset button
		DCP or source unit connectors are dirty.	Wipe the dirt off with a soft cloth moistened with cleaning alcohol.
DVD (CD/MP3)	No sound heard	The speaker protection circuit is operating.	1. Turn down sound volume. Function can also be restored by turning the power off and on again. (Speaker volume is reduced automatically when the speaker protection circuit operates). 2. If the sound is muted again, consult our service department.
	Audio and video are not output.	MP3 files are absent in a disc.	Write MP3 files onto the disc properly.
		Files are not recognized as an MP3 file.	Use MP3 files encoded properly.
		File system is not correct.	Use ISO9660 level 1, 2 or JOLIET or Romeo file system.
	Sound skips or is noisy.	Compact disc is dirty.	Clean the compact disc with a soft cloth.
		Compact disc is heavily scratched or warped.	Replace with a compact disc with no scratches.
	Sound is cut or slipped. Noise is generated or noise is mixed with sound.	MP3 files are not encoded properly.	Use MP3 files encoded properly.
	Sound is bad directly after power is turned on.	Water droplets may form on the internal lens when the car is parked in a humid place.	Let dry for about 1 hour with the power on.
	Wrong filename	File system is not correct.	Use ISO9660 level 1, 2 or JOLIET or Romeo file system.

11. ERROR DISPLAYS

If an error occurs, one of the following displays is displayed.
Take the measures described below to eliminate the problem.

	Error Display	Cause	Measure
DVD (CD/MP3)	**ERROR 2**	The failure of a DVD/CD itself considered.	Consult your store of your purchase or the Clarion repair window.
	ERROR 3	1. A DVD/CD cannot be played due to scratches, etc. 2. A DVD/CD cannot be played due to the defective pick-up part. 3. The disc is placed up side down.	Replace with a non-scratched, non-warped-disc.
	ERROR 6	A DISC inside a DVD/CD cannot be played because it is loaded upside-down.	Eject the disc then reload it properly.
	ERROR R	Disc region code incorrect.	Use a disc with the correct region code.
	ERROR P	The view is limited.	Release the view limitation or change the parental level. (See the subsection “Setting up the parental level”.)
CD changer	**ERROR 2**	A CD inside the CD changer is not loaded.	This is a failure of CD changer’s mechanism and consult your store of purchase.
	ERROR 3	A CD inside the CD changer cannot be played due to scratches, etc.	Replace with a non-scratched, non-warped disc.
	ERROR 6	A CD inside the CD changer cannot be played because it is loaded upside-down.	Eject the disc then reload it properly.
DVD changer	**ERROR 2**	A DISC inside the DVD changer cannot be played.	This is a failure of DVD mechanism and consult your store of purchase.
	ERROR 3	A DISC cannot be played due to scratches, etc.	Retry or replace with a non-scratched, non-warped-disc.
	ERROR 6	A DISC inside the DVD changer cannot be played because it is loaded upside-down.	Eject the disc then reload it properly
	ERROR P	Parental level error	Set the correct Parental level.
	ERROR R	Region code error	Eject the disc and replace correct region code disc.
General	**AMP GUARD**	The speaker protection circuit is operating. During this operation, if any volume operation is performed, the display shows “**AMP GUARD**”.	1. Turn down sound volume. Function can also be restored by turning the power off and on again. (Speaker volume is reduced automatically when the speaker protection circuit operates). 2. If the sound is muted again, consult our service department.

If an error display other than the ones described above appears, press the reset button. If the problem persists, turn off the power and consult your store of purchase.

12. SPECIFICATIONS

English

FM Tuner

Frequency Range:
87.0 MHz to 108.0 MHz

Usable Sensitivity:
9 dBf

50dB Quieting Sensitivity:
15 dBf

Alternate Channel Selectivity:
70 dB

Stereo Separation (1 kHz):
35 dB

Frequency Response (±3 dB):
30 Hz to 15 kHz

AM Tuner

Frequency Range:
531 kHz to 1629 kHz

Usable Sensitivity:
25 µV

DVD Player section

System:
Digital Versatile Disc System with CDDA capable

Usable Discs:
DVD Video Disc, Video CD, Compact disc

Frequency Response:
20 Hz to 20 kHz (±1 dB)

Signal to Noise Ratio:
90 dB

Distortion:
0.02%

Channel Separation:
80 dB

Analog audio output:
1.5 Vrms

Audio

Maximum Power Output:
208 W (52 W × 4 ch)

Continuous Average Power Output:
17 W × 4, into 4 Ω, 20 Hz to 20 kHz, 1%THD

Bass Control Action (50 Hz/80 Hz/120 Hz):
+16 dB, -12dB

Treble Control Action (8 kHz/12 kHz):
±12 dB

Line Output Level (CD 1 kHz):
1.5 V

General

Power Supply Voltage:
14.4 V DC (10.8 to 15.6 V allowable), negative ground

Current Consumption:
Less than 15 A, 3A

Speaker Impedance:
4 Ω (4 Ω to 8 Ω allowable)

Weight / Source unit:
4 lb. (1.8 kg)

Weight / Remote control unit:
3.5 oz. (100 g) (including battery)

Dimensions / Source unit:
7” (Width) × 2” (Height) × 6-5/16” (Depth)
[178 (W) × 50 (H) × 160 (D) mm]

Dimensions / Remote control unit:
2-1/8” (Width) × 6-1/8” (Height) × 1-1/16” (Depth)
[54 (W) × 155 (H) × 27 (D) mm]

Note:

• Specifications and design are subject to change without notice for further improvement.